

**Rico Surface Water Sampling
Supplemental Surface Water Quality Monitoring
Rico, Colorado
Data Summary Report**

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May 2012

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Rico, Colorado
Surface Water Sampling Report
May 2012 Sampling Event

1.0 Introduction

In accordance with the Rico Sampling and Analysis Plan for Supplemental Surface Water Quality Monitoring at Rico, CO prepared by AECOM, dated November 2010, the surface water sampling event was completed on May 23th – 24th, 2012. Sampling was completed by Anderson Engineering Co. Inc., by technicians who are familiar with the Rico sites and the BP Control of Work Management System. Surface water samples were collected from prescribed locations within the St. Louis settling pond system and at the system discharge (DR-6) to the Dolores River (collectively referred to as the St. Louis pond system), and previously sampled locations along the Dolores River above, at and below the St. Louis pond system. Figure 1 and Figure 1a (see Appendix A) illustrate the location of the various surface water sampling stations along the Dolores River and in the St. Louis pond system. Figure 2 in Appendix A illustrates the locations of the twenty monitoring wells sampled monthly. Sample results have been summarized and laboratory analytical results are attached with quality control documentation.

2.0 Field Sampling

2.1 Sampling Frequency

The sampling period represented by this sampling event is for the month of May of 2012. Sampling will be performed on a monthly basis until at least December of 2012.

2.2 Water Quality and Flow Measurement Sampling Locations

Surface water samples were collected from the locations described on Table 1 and shown on Figure 1 and Figure 1a in Appendix A. In the fall of 2011, twelve (12) new monitoring wells were drilled in the vicinity of the recently constructed interim drying facility. Beginning November 2011, those wells were sampled and will continue to be sampled monthly along with the other sampling locations mentioned. Additionally, eight (8) historic groundwater wells are sampled every month. Figure 2 in Appendix A illustrates the locations of all groundwater wells sampled monthly, and they are described in Table 1.

The Dolores River was sampled above the St. Louis pond system, and below the adit outfalls downstream of the reclaimed Silver Swan Mine area. The river was also sampled at the USGS gaging station downstream of the Silver Swan site.

TABLE 1 - Sample Location Summary

SITE ID	SITE DESCRIPTION
DR-4-SW	Dolores River below Silver Swan
DR-1	Dolores River above St. Louis settling pond system
DR-2	Dolores River immediately above the St. Louis settling pond system outfall

DR-3	St. Louis tunnel discharge at adit
DR-4	Discharge of Pond 15
DR-5	Discharge of Pond 8
DR-6	St. Louis settling pond system outfall to the Dolores River
DR-7	Dolores River below St. Louis settling pond system outfall
DR-G	Dolores River at USGS gaging station #09165000
GW-1	Located on the north end of the site, approximately a quarter mile north of the northern edge of Pond 18.
GW-3	Located approximately 200 feet north of the northern edge of pond 18, and approximately 60 feet west of the main access road.
GW-4	Located on the western flood dike of Pond 18, approximately midway along the dike.
GW-5	Located on the northern edge of the former Pond 17 area, or on the northern dike of the newly constructed drying cell 1.
GW-6	Located on the middle of the former Pond 17 area, or on the western edge of the south dike of the newly constructed drying cell 1.
GW-7	Located on the eastern edge of the access road directly across from the former Pond 17, or directly across from the newly constructed drying cell 2.
EB-1	Located on the northern edge of the former Pond 17 area, or on the northern dike of the newly constructed drying cell 1. It is within ten feet of GW-5.
EB-2	Located on the southern portion of the former Pond 16 area, or on the western edge of the south dike of the newly constructed drying cell 3.
MW-1 Shallow MW-1 Deep	Both wells are located about 4 feet apart on the western embankment of Pond 13 at the division between Pond 11 and Pond 12.
MW-2 Shallow MW-2 Deep	Both wells are located about 4 feet apart on the western flood embankment of Pond 12, about mid-way along the pond.
MW-3 Shallow MW-3 Deep	Both wells are located about 4 feet apart on the western flood embankment of Pond 15, on the southern half of the embankment.
MW-4 Shallow MW-4 Deep	Both wells are located about 4 feet apart on the southern embankment of Pond 13, approximately 60 west of the main east access road.
MW-5 Shallow MW-5 Deep	Both wells are located about 4 feet apart on the western dike of drying cell 3 (refer to Figure 2).
MW-6 Shallow MW-6 Deep	Both wells are located about 4 feet apart on northern embankment of Pond 13, approximately 75 feet west of the main east access road

2.3 Sampling Station Descriptions

The sampling requirements and stations are described in detail below, as well as the conditions at each station for this sampling period:

DR-1. Dolores River above St. Louis settling ponds system. The sampling/flow measurement location is on the Dolores River approximately 50 feet upstream of the Rico Ranger Station. Flow measurement by flotation method.

DR-2. Dolores River immediately above the St. Louis settling pond system outfall. Sampling/flow measurement location is on the Dolores just above the 002 discharge outfall, and upstream of the hot tub discharge. The site is located directly adjacent to the thermal discharge which supplies the hot tub. Flow measurement by flotation method.

DR-3. St. Louis tunnel discharge at adit entrance. Sampling location is at the inlet of the flume, just before the throat. Flow measurement by an installed 9" flume and water level measurement devices at the sampling location.

DR-4. Discharge of Pond 15. Flow measurement was collected by flowmeter.

DR-5. Discharge of Pond 8. Due to the shallow water and multiple paths, accurate flow measurements could not be determined for this sampling location and period. Leakage was estimated by water balance. Flows estimated by water balance and water level reading.

DR-6. St. Louis settling ponds system outfall to the Dolores River (Outfall 002). Flow measurement by installed 9" flume.

DR-7. Dolores River below St. Louis settling ponds system outfall. Sampling/flow measurement location is located just off the entrance road to the St. Louis ponds site where the Dolores River is adjacent to the entrance road. The site is located approximately 75 feet downstream from a large bend in the river that first brings the Dolores adjacent to the entrance road. Flow measurements were collected by flowmeter.

DR-4-SW. Dolores River below Silver Swan. Sampling/flow measurement location is on the Dolores River below the Silver Swan site just downstream of a bend in the river and below a cemetery on the east bank. Flow measurement by flotation method.

DR-G. Located at the USGS gauging station #09165000. Flow measurement by flotation method

Monitoring Wells. All monitoring wells were sampled by use of a bailer, and field measurements were taken at the time of sampling. Depth measurements were also taken at this time. For the May 2012 sampling period, MW-2 Shallow and MW-3 Shallow were dry. GW-6 was not sampled due to an old bailer that is lodged in the well at approximately 25 feet. Efforts have been made to remove it, and will continue to be made until the issue is resolved.

3.0 Sampling and Analysis Parameters and Methods

All samples were collected as grab samples. Samples were collected from well-mixed locations, which are representative of conditions within the flow stream. Lab-certified plastic bottles were used to collect sample water for analyses. Clean hands, dirty hands procedures were followed throughout the sampling. For quality control purposes, one duplicate sample and one field blank were included with the water samples being submitted to the laboratory for analysis.

Lab-certified plastic bottles were used to collect all water samples. Sample water was first collected in clean plastic jugs, and within 10 minutes, placed in the sampling bottles. The following sample bottles were used for collection and analysis (all samples collected without filtration unless otherwise indicated):

- One (1) 500mL HDPE bottle, unpreserved, for alkalinity, Total Dissolved Solids (TDS), Total Suspended Solids (TSS), and sulfate analysis
- One (1) 250mL HDPE bottle, unpreserved, for salinity analysis
- One (1) 250mL HDPE bottle, unpreserved, for silica analysis
- One (1) 250mL HDPE bottle, preserved with HNO₃, for total metals and water hardness analysis
- One (1) 250mL HDPE bottle, preserved with HNO₃, for dissolved metals analysis. This sample is filtered in the field through a 0.45µm filter.
- One (1) 250mL HDPE bottle, preserved with HNO₃, for potentially dissolved metals analysis
- One (1) 250 mL HDPE bottle, preserved with NaOH and Zn Acetate, for sulfide analysis.
- One (1) 250 mL HDPE bottle, preserved with NaOH, for cyanide analysis
- One (1) 250 mL amber glass bottle, preserved with H₂SO₄, for Total Organic Carbon (TOC) analysis

Field parameters were measured at the time of sample collection. Field measurement data for pH, temperature, electrical conductivity, dissolved oxygen, and Oxidation Reduction Potential (ORP) were recorded using a Hanna Instruments HI 9828 Multiparameter Meter, and results were logged in the field log book. Weather parameters including temperature and precipitation were obtained and documented in the Daily Toolbox Meeting Record.

All sample bottles were labeled to identify sample number, date and time of collection, type of analysis, and appropriate preservative. In addition, sample analysis/chain of custody forms were completed and processed at the time of sample collection. Original chain of custody forms are signed, dated, and placed in the sample container prior to sealing the container for shipment.

Water samples were kept in cooled containers and sent to the analytical laboratory. Samples were submitted to Pace Analytical Laboratories in Lenexa, Kansas for analysis by analytical procedures listed on Table 2. Analysis was performed according to methods specified in 40 CFR, Part 136 or other methods approved by the EPA. Laboratory methods and reporting limits for all parameters are presented in Table 2. Laboratory results and supporting documentation including quality assurance results are contained in the Appendix C and Appendix D of this report. Results are summarized in Table 4A and Table 4B in Appendix B of this report.

TABLE 2 - Analytical Procedures Summary

PARAMETER	DETECTION LIMIT (MDL)	METHOD
FIELD PARAMETERS		
Dissolved Oxygen (ppm)	+/- 2% Full Scale	SM 4500-OG
Electrical Conductivity (mS/cm)	+/- 2% full scale	EPA 120.1
Temperature (°C)	+/- 1° C	Standard Method 2550
ORP (Oxidation Reduction Potential, mV)	+/- 1.0 mV	Ag/AgCl Probe
pH (Standard pH Units)	+/- 0.01 pH	EPA 150.2
NON-METALS		
Alkalinity (mg/L as CaCO ₃)	RL – 20 mg/L	SM 2320B
Cyanide (µg/L as CN)	RL – 0.005 mg/L	SM 4500-CN-E
Hardness (mg/L as CaCO ₃)	RL – 0.5 mg/L	SM 2340B
Salinity (mg/L as dissolved solids)	RL – 6 mg/L	SM 2510B (calculated)
Silica	0.1 mg/L	ASTM D859
Sulfate (mg/L as SO ₄)	RL – 1 mg/L	EPA 300.0
Sulfides (mg/L)	0.05 mg/L	4500-S-2 D
Total Dissolved Solids (mg/L as TDS)	RL – 5.0 mg/L	SM 2540C
Total Organic Carbon (mg/L)	0.5 mg/L	SM 5310C
Total Suspended Solids (mg/L as TSS)	RL – 5.0 mg/L	SM 2540D
TOTAL, DISSOLVED, AND POTENTIALLY DISSOLVED METALS		
Aluminum (µg/L as Al)	2 µg/L	EPA 200.8
Antimony (µg/L as Sb)	0.07 µg/L	EPA 200.8
Arsenic (µg/L as As)	0.09 µg/L	EPA 200.8
Barium (µg/L as Ba)	0.08 µg/L	EPA 200.8
Beryllium (µg/L as Be)	0.02 µg/L	EPA 200.8
Cadmium (µg/L as Cd)	0.03 µg/L	EPA 200.8
Calcium (µg/L as Ca)	10 µg/L	EPA 200.8
Chromium (ug/l as Cr)	0.10 ug/L	EPA 200.8
Cobalt (ug/l as Co)	0.25 ug/L	EPA 200.8
Copper (µg/L as Cu)	0.07 µg/L	EPA 200.8
Iron (µg/L as Fe)	4.67 µg/L	EPA 200.8
Lead (µg/L as Pb)	0.05 µg/L	EPA 200.8
Magnesium (µg/L as Mg)	2.5 µg/L	EPA 200.8
Manganese (µg/L as Mn)	0.17 µg/L	EPA 200.8
Mercury (µg/L as Hg)	0.049 µg/L	EPA 245.1
Molybdenum (µg/L as Mo)	0.12 ug/L	EPA 200.8
Nickel (µg/L as Ni)	0.07 µg/L	EPA 200.8
Potassium (µg/L as K)	10 µg/L	EPA 200.8
Selenium (ug/l as Se)	0.22 ug/L	EPA 200.8
Silver (ug/L as Ag)	0.25 ug/L	EPA 200.8
Sodium (µg/L as Na)	25 µg/L	EPA 200.8
Thallium (µg/L as Tl)	0.05 ug/L	EPA 200.8
Vanadium (µg/L as V)	0.05 ug/L	EPA 200.8
Zinc (µg/L as Zn)	2.5 µg/L	EPA 200.8

4.0 Flow Measurement Methods

Flows were measured at the river sampling locations where accessible. Flow measurements were not collected at areas where ice and snow buildup or high, fast flows prohibited safe access. The flow measurements obtained this sampling period are described in Section 2.3. Flowrates were measured for sampling locations DR-1, DR-2, DR-3, DR-4, DR-5, DR-6, DR-7, DR-4-SW, and DR-G. Refer to Figures 3 through 8 in Appendix E for these cross sections. The flowrates are presented on Table 3 in Appendix B.

Flow velocity measurements collected during this sampling event were taken by use of a Global Water Flow Probe FP211 portable flow meter at stations DR-7 using the six-tenths-depth method. This method uses the velocity at six-tenths of the depth as the mean velocity. This method is generally reliable between depths from 0.3 feet to 2.5 feet. Stream sections were selected with the desired characteristics of parallel flows, smooth streambed with minimal obstructions, a straight channel, and a flat streambed. The stream section, perpendicular to the flow was measured in feet. The width of the section was determined and divided into several sub-sections. Flow measurements of velocity (by the six-tenths-depth method) and water depth were measured at each vertical section using the Global Water Flow Probe FP211. The flow meter was set to the 3 second fixed period average mode. A minimum of three velocity readings were recorded at each vertical section. Flows were calculated for each stream section using the water depth, horizontal distance, and averaged velocity data.

Due to high flows at DR-1, DR-2, DR-4-SW, and DR-G, the flotation method was used to estimate flows at this river cross sections. This method involved measuring off a 10 foot section of ground along the bank parallel to the flow of the river. An object was released in the river at the start of the 10 foot measured interval, as close to the center of the flow stream as possible. A stopwatch was used to record the time required for the object to float on the surface of the river for the duration of the 10 foot interval. Three trials were conducted and recorded in the field log book. An average was taken of the three trials and divided by 10 feet in order to obtain the average surface velocity in the center of the flow stream. This velocity was then multiplied by a factor of 0.8 (see Appendix K for documentation on this factor) in order to obtain an average vertical velocity for the stream. The total cross sectional was calculated based on water level surveys, and this area was multiplied by the average velocity to obtain the flowrate estimate.

The St. Louis tunnel flow (DR-3) and St. Louis pond discharge (DR-6) currently have Parshall flumes installed. Flow measurements can be determined at these flumes when the depth of flow is known at a particular point. In order to continuously monitor and measure the depth of flow, depth measurement devices were installed on May 11th, 2011 and May 12th, 2011 at both the north and south flumes. An STI Ultrasonic IRU-5180 automated water level detector was installed at the north Parshall flume. In order to obtain further flow data, an OTT PLS submersible pressure transducer was installed at the north flume in December 2011. In January 2012, it was decided that the OTT PLS would be

used exclusively at the north flume to report flow data, and that the ultrasonic meter would remain only as a backup flow measurement system. This was due in large part to the stability and uniformity observed in the data from the OTT PLS, as opposed to the ultrasonic meter, which exhibited greater instability and variability in the readings than the OTT PLS. The south flume has a submersible pressure transducer called the OTT Orpheus Mini. It records deviations from a pre-programmed depth of air space from the top edge of the flume down to the water level. Knowing then the total depth of the flume, the depth of flow can be determined. The post processed data for the OTT PLS and the OTT Orpheus Mini for the month of May, 2012 is given in Appendix I and Appendix J, respectively.

5.0 Analytical Results

The results of the laboratory analysis are summarized on Table 4 in Appendix B. The data is organized by sample location. The reports for the laboratory results are contained in Appendix C.

6.0 Quality Control

In addition to the standard laboratory Quality Control (QC), field QC samples for this sampling event included a field duplicate and a Field Blank (FB).

6.1 Field QC

A field duplicate water sample was collected from sample location DR-3. During sample collection, the duplicate sample bottles were filled simultaneously from the discharge stream of water. The duplicate sample was submitted to the analytical laboratory with the label of DR-8, so as to serve as a “blind duplicate.”

Table 5 compares the analytical results for total metals portion from DR-3 and DR-8 and presents the Relative Percent Difference (RPD). The RPD for aqueous samples should be +/- 20%. All comparative values were within +/-20%.

TABLE 5 – Relative Percent Difference (RPD) of Total Metals Portion Between DR-3 and Duplicate Sample DR-8

Analyte (Total)	DR-3 ($\mu\text{g/L}$)	DR-8 ($\mu\text{g/L}$) Duplicate of DR-3	RPD (%)
Aluminum	512	514	0.39
Antimony	<0.50	<0.50	-
Arsenic	<0.50	<0.50	-
Barium	21.8	21.5	-1.39
Beryllium	0.79	0.91	14.12
Cadmium	37.9	37.0	-2.40
Calcium	234000	238000	1.69
Chromium	<0.50	<0.50	-
Cobalt	3.9	3.8	-2.60
Copper	141	141	0.00
Iron	5840	5740	-1.73
Lead	4.4	4.3	-2.30
Magnesium	21600	21500	-0.46

Manganese	2620	2700	3.01
Mercury	<0.20	<0.20	-
Molybdenum	12.6	12.4	-1.60
Nickel	6.5	6.4	-1.55
Potassium	1610	1620	0.62
Selenium	<0.50	<0.50	-
Silver	<0.50	<0.50	-
Sodium	11300	11200	-0.89
Thallium	<0.10	<0.10	-
Vanadium	<0.10	<0.10	-
Zinc	6510	6600	1.37
Alkalinity (mg/L)	76.0	76.0	0.00
Cyanide	<0.0050	<0.0050	-
Hardness	673000	682000	1.33
Salinity (mg/L)	827	820	-0.85
Silica	16400	17000	3.59
Sulfate (mg/L)	769	735	-4.52
Sulfide (mg/L)	<0.050	<0.050	-
TDS (mg/L)	980	1020	4.00
TOC (mg/L)	<1.0	<1.0	-
TSS (mg/L)	<5.0	16.0	-

A Field Blank (FB) was collected by analyzing a bottle of distilled water in the field in the same manner as any other sample. The FB was analyzed for the same constituents as the other samples. The FB had concentrations below the reporting limit for all metals except for total aluminum, total calcium, total manganese, total sodium, dissolved aluminum, dissolved calcium, and dissolved sodium. The pH was slightly below neutral, the Electrical Conductivity (EC) was non-detectable, it showed a non-detectable level of alkalinity, and a low level of TDS.

6.2 Laboratory QC

The laboratory control sample (LCS), method blank, matrix spike, and matrix spike duplicate sample results were all within the established limits of concentration, percent recovery, and relative percent difference, with several minor exceptions. Please refer to the Laboratory QC Results in Appendix D for exceptions and for a full QC report.

Appendix A
Sampling Location Maps

General Notes



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BP / ARCO



RICO SURFACE WATER
SAMOPLING

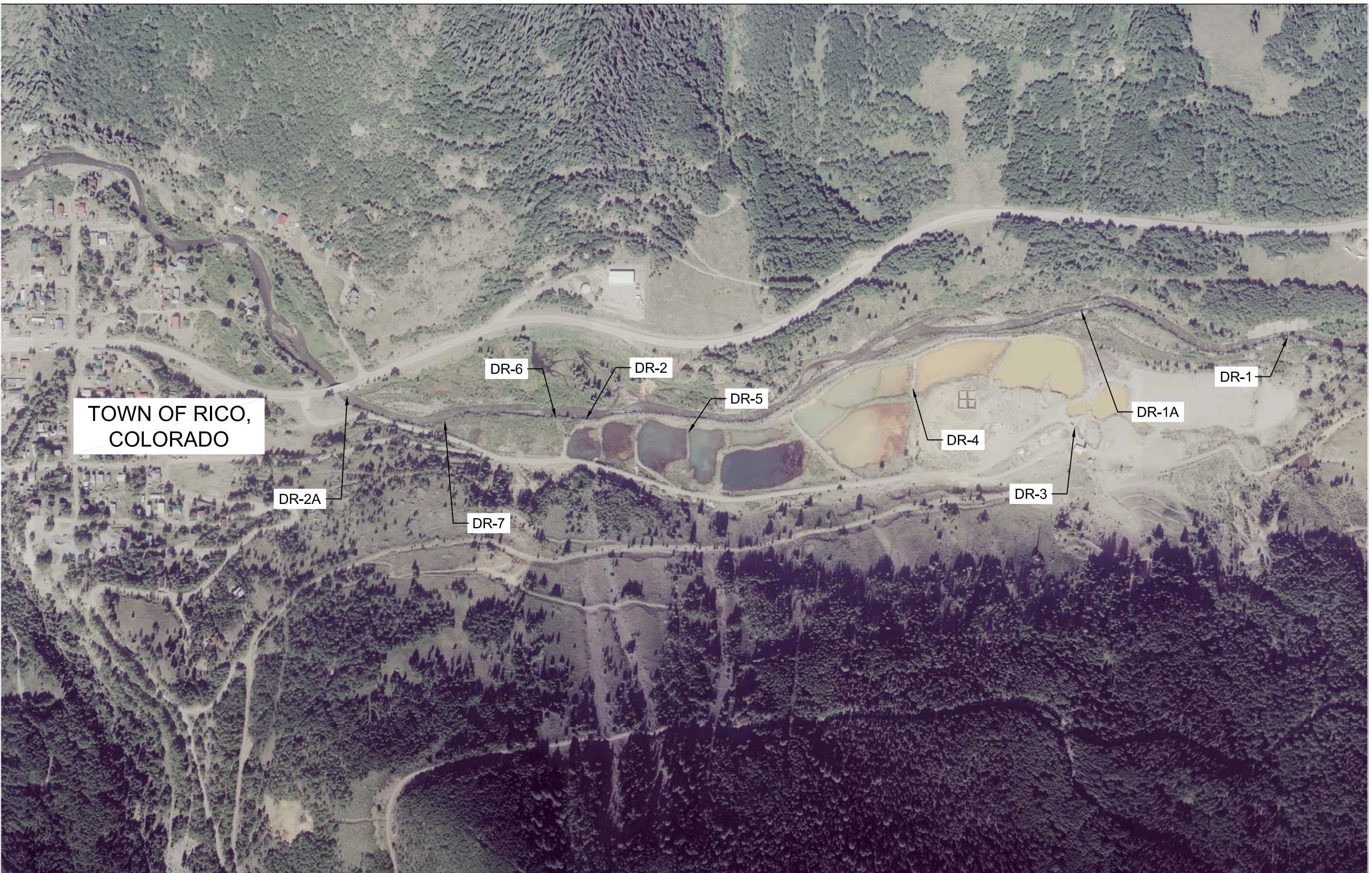
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SAMPLING LOCATIONS

RICO,
COLORADO

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ENGINEER: MAD
APPROVED: CES

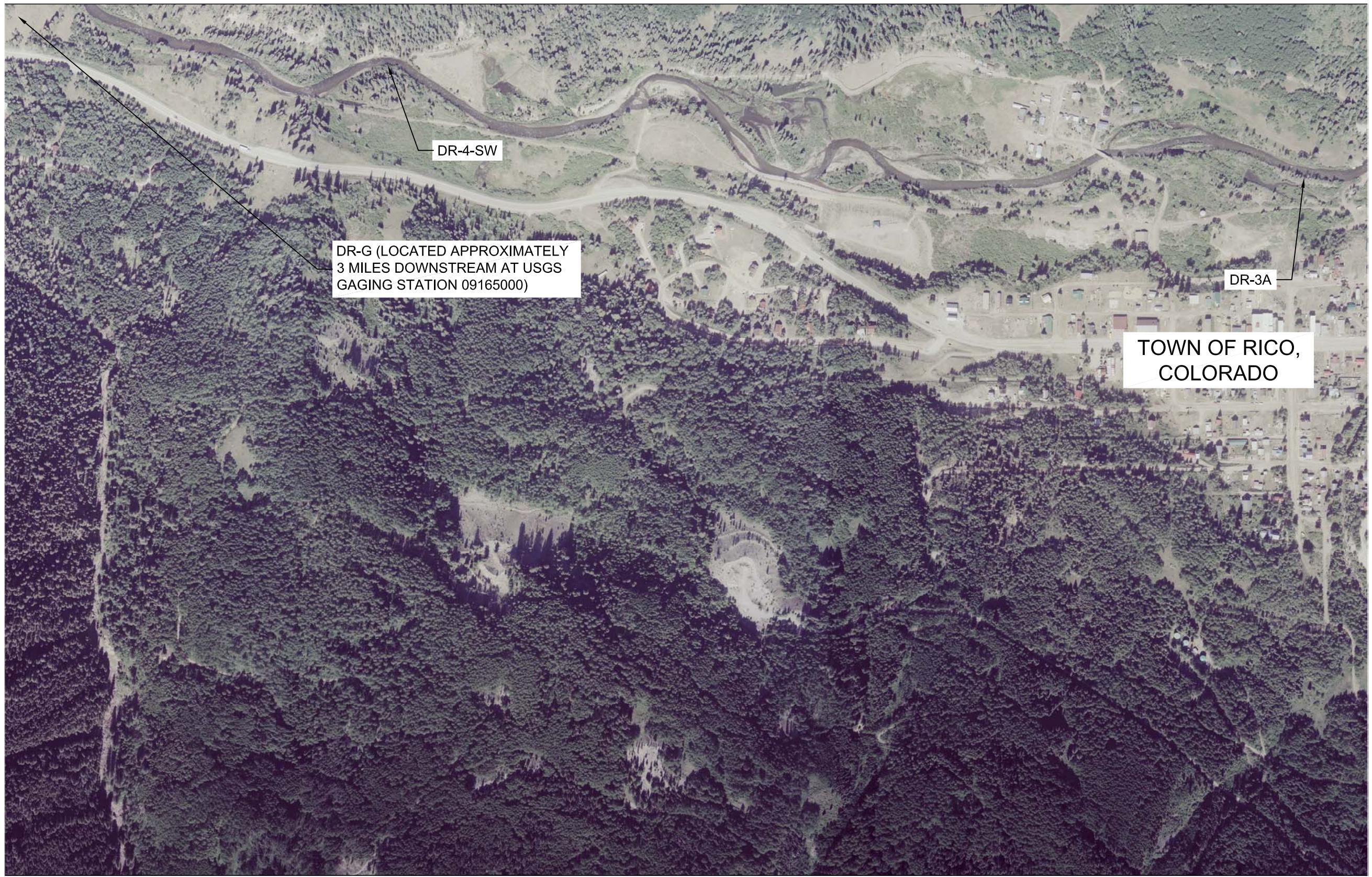
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Sheet 1



01 ST LOUIS PONDS SAMPLING LOCATIONS

SCALE - 1" = 500'



1a **SAMPLING LOCATION SOUTH OF RICO, CO**

SCALE - 1" = 500'

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General Notes



SCALE IN FEET



A horizontal scale bar with tick marks at 0, 250, and 500. The word "SCALE IN FEET" is written above the bar.

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DR-3A

TOWN OF RICO, COLORADO

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SALT LAKE CITY, UTAH 84119

RICO SURFACE WATER SAMOPLING

SAMPLING LOCATIONS SOUTH OF RICO, CO

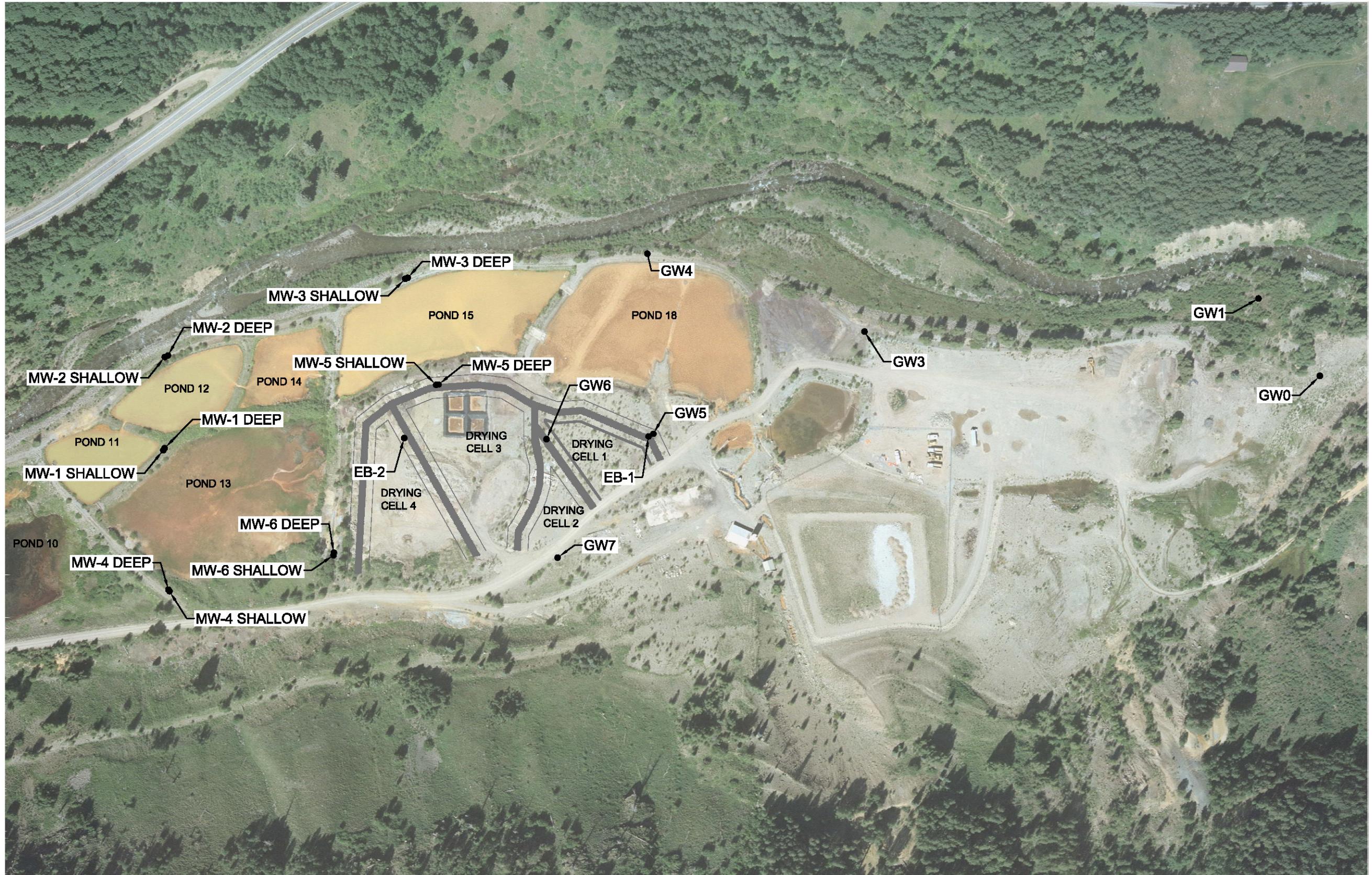
RICO,

COLORADO

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APPROVED:	CES

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1a



02 MONITORING WELL LOCATIONS

SCALE - 1" = 200'

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RICO GW WELL MONITORING <small>MONITORING WELL LOCATIONS</small> <small>RICO COLORADO</small>											
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Appendix B

Data Tables

TABLE 3 - Sampling Field Data and Station Information Summary, May 2012

	Sample Location	Date of Sample Collection	Field Technicians	Field Measurements						GPS Location (Colorado State Plane NAD83)		Flow Data		Comments	
				pH	Temp (°C)	EC (mS/cm)	Dissolved Oxygen (ppm)	Oxydation Reduction Potential (ORP, mV)	Well Casing Elevation (ft)	Well Water Elevation (ft)	Northing	Easting	Stream Cross section area (ft^2)	Flowrate cfs / gpm	
DR-1	5/23/2012	M. DeFriez, T. Barbee	6.24	9.21	0.086	4.87	-35.2	NA	NA	1389970.4600	2267573.6490	52.4	256.9	115297	Cross section on the Dolores River above St. Louis settling pond system (approximately 800 ft north of the northern edge of Pond 18). Flow measurement by flotation method.
DR-2	5/24/2012	M. DeFriez, T. Barbee	6.70	5.77	0.107	6.47	17.9	NA	NA	1386660.9610	2267971.4630	67.6	217.4	97569	Cross section on the Dolores River, approximately 150 ft north of system outfall. Flow measurement by flotation method.
DR-3	5/24/2012	M. DeFriez, T. Barbee	6.80	19.11	1.332	3.07	-34.4	NA	NA	1388963.0808	2268004.6974	NA	1.38	619	St Louis adit discharge. Flow measurement by installed Parshall Flume. Water level by installed STI Ultrasonic IRU-5180 water level meter and an OTT PLS submersible pressure transducer.
DR-4	5/24/2012	M. DeFriez, T. Barbee	7.33	18.71	1.349	4.45	-4.9	NA	NA	1388153.6284	2267799.1579	NA	1.32	592	Pond 15 discharge. Flow measurement by flowmeter.
DR-5	5/24/2012	M. DeFriez, T. Barbee	6.51	12.73	1.378	5.12	35.2	NA	NA	1387273.4503	2268024.8524	NA	1.27	570	Pond 8 was discharging at multiple small locations as well as the spillway. Due to the shallow water and multiple paths, accurate flow measurements could not be determined for this sampling location and period. Leakage was estimated by water balance. Flows estimated by water balance and water level reading.
DR-6	5/24/2012	M. DeFriez, T. Barbee	6.59	12.53	1.451	5.24	-29.9	NA	NA	1386431.4984	2267964.5711	NA	0.93	417	Outfall to Dolores River. Flow measurement by installed Parshall Flume. Water level by OTT Orpheus Mini submersible pressure transducer.
DR-7	5/24/2012	M. DeFriez, T. Barbee	6.44	10.34	0.165	6.08	-4.7	NA	NA	1385880.1050	2267983.4510	66.8	198.4	89042	Cross section on the Dolores River, approximately 500 ft below St. Louis settling pond system outfall. Flow measurement by flowmeter.
DR-8	5/24/2012	M. DeFriez, T. Barbee	6.80	19.11	1.332	3.07	-34.4	NA	NA	1388963.0808	2268004.6974	NA	NA	NA	DR-8 is a duplicate sample of DR-3 (or a location of sampler's choosing). See comments for DR-3.
DR-4-SW	5/24/2012	M. DeFriez, T. Barbee	7.08	10.37	0.122	5.98	4.5	NA	NA	1379176.1190	2266285.0850	57.4	209.5	94024	Cross section on the Dolores River approximately 100 below the Silver Swan site. Flow measurement by flotation method.
DR-G	5/24/2012	M. DeFriez, T. Barbee	7.01	11.03	0.127	6.19	-31.7	NA	NA	1364029.7850	2258752.9060	48.7	205.3	92139	Cross section on the Dolores River at USGS gauging station #09165000, approximately 3.5 miles downstream of the Silver Swan site. Flow measurement by flotation method.
FB	5/24/2012	M. DeFriez, T. Barbee	6.84	19.04	0.000	3.64	-74.2	NA	NA	N/A	N/A	NA	NA	NA	Field blank
GW-1	5/23/2012	M. DeFriez, T. Barbee	6.48	13.02	0.206	1.99	-34.2	8840.13	8839.70	1390006.0210	2267642.6870	NA	NA	NA	Located on the north end of the site, approximately a quarter mile north of the northern edge of Pond 18.
GW-3	5/23/2012	M. DeFriez, T. Barbee	6.32	12.88	0.768	1.84	-71.8	8836.68	8823.00	1389221.9930	2267708.3940	NA	NA	NA	Located approximately 200 feet north of the northern edge of pond 18, and approximately 60 feet west of the main access road.
GW-4	5/24/2012	M. DeFriez, T. Barbee	6.57	12.24	0.913	0.00	-90.0	8826.79	8816.75	1388790.0720	2267553.5420	NA	NA	NA	Located on the western flood dike of Pond 18, approximately midway along the dike.
GW-5	5/24/2012	M. DeFriez, T. Barbee	6.61	12.76	2.429	0.57	-101.9	8839.52	8818.85	1388802.0650	2267911.8020	NA	NA	NA	Located on the northern edge of the former Pond 17 area, or on the northern dike of the newly constructed drying cell 1.
GW-6	NA	NA	WELL OBSTRUCTED					8837.45	CNO	1388589.3950	2267922.5090	NA	NA	NA	Located on the middle of the former Pond 17 area, or on the western edge of the south dike of the newly constructed drying cell 1. Could not obtain sample due to obstruction near bottom of well.
GW-7	5/23/2012	M. DeFriez, T. Barbee	6.11	14.08	1.221	0.59	-80.5	8840.00	8820.48	1388611.4370	2268158.0170	NA	NA	NA	GW-7 Located on the eastern edge of the access road directly across from the former Pond 17, or directly across from the newly constructed drying cell 2.
EB-1	5/23/2012	M. DeFriez, T. Barbee	6.50	15.73	2.144	0.49	-107.5	8839.86	8818.75	1388792.4420	2267916.9080	NA	NA	NA	Located on the northern edge of the former Pond 17 area, or on the northern dike of the newly constructed drying cell 1. It is within ten feet of GW-5.
EB-2	5/23/2012	M. DeFriez, T. Barbee	6.61	13.85	3.505	0.00	-81.4	8829.84	8813.87	1388306.1480	2267920.2500	NA	NA	NA	Located on the southern portion of the former Pond 16 area, or on the western edge of the south dike of the newly constructed drying cell 3.
MW-1 SHALLOW	5/23/2012	M. DeFriez, T. Barbee	6.57	13.88	1.293	1.66	-47.6	8810.87	8804.72	1387826.7470	2267944.5160	NA	NA	NA	Both wells are located about 4 feet apart on the western embankment of Pond 13 at the division between Pond 11 and Pond 12.
MW-1 DEEP	5/23/2012	M. DeFriez, T. Barbee	6.47	13.61	1.211	1.47	-48.0	8810.85	8802.40	1387829.4070	2267940.5680	NA	NA	NA	
MW-2 SHALLOW	NA	M. DeFriez, T. Barbee	DRY WELL					8810.23	DRY	1387829.7580	2267759.0810	NA	NA	NA	Both wells are located about 4 feet apart on the western flood embankment of Pond 12, about mid-way along the pond. MW-2 SHALLOW was dry.
MW-2 DEEP	5/24/2012	M. DeFriez, T. Barbee	6.40	12.67	1.283	1.25	-35.6	8810.21	8800.45	1387836.0950	2267756.0910	NA	NA	NA	
MW-3 SHALLOW	NA	M. DeFriez, T. Barbee	DRY WELL					8819.57	DRY	1388308.0910	2267603.5420	NA	NA	NA	Both wells are located about 4 feet apart on the western flood embankment of Pond 15, on the southern half of the embankment. MW-3 SHALLOW was dry.
MW-3 DEEP	5/24/2012	M. DeFriez, T. Barbee	6.89	13.52	1.189	0.75	-78.9	8819.72	8809.95	1388313.2060	2267601.6050	NA	NA	NA	
MW-4 SHALLOW	5/23/2012	M. DeFriez, T. Barbee	6.08	15.27	1.240	1.39	-55.2	8816.83	8800.42	1387836.9670	2268221.9370	NA	NA	NA	Both wells are located about 4 feet apart on the southern embankment of Pond 13, approximately 60 west of the main east access road.
MW-4 DEEP	5/23/2012	M. DeFriez, T. Barbee	6.06	14.43	1.395	1.41	-43.6	8816.77	8800.40	1387839.1320	2268224.8950	NA	NA	NA	
MW-5 SHALLOW	5/24/2012	M. DeFriez, T. Barbee	4.91	15.09	2.680	0.17	69.5	8830.95	8815.59	1388369.7050	2267814.3980	NA	NA	NA	Both wells are located about 4 feet apart on the western dike of drying cell 3 (refer to Figure 2).
MW-5 DEEP	5/24/2012	M. DeFriez, T. Barbee	6.98	13.52	2.307	0.24	-118.2	8830.73	8814.19	1388374.5740	2267813.8150	NA	NA	NA	
MW-6 SHALLOW	5/23/2012	M. DeFriez, T. Barbee	6.80	16.08	1.564	0.39	-92.8	8830.58	8808.23	1388166.1000	2268148.1000	NA	NA	NA	Both wells are located about 4 feet apart on northern embankment of Pond 13, approximately 75 feet west of the main east access road.
MW-6 DEEP	5/23/2012	M. DeFriez, T. Barbee	6.62	14.65	1.449	1.24	-78.8	8830.11	8807.74	1388165.5290	2268153.3270	NA	NA	NA	

TABLE 4A - Surface Water Analytical Sampling Results Summary, May 2012

Field Sample ID	Date Collected	Metals ($\mu\text{g/L}$)																				Non-Metals (mg/L, unless otherwise indicated)														
		Fraction	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Alkalinity	Cyanide	Hardness ($\mu\text{g/L}$ as CaCO_3)	Salinity	Silica	Sulfate	Sulfide	TOC	TSS		
DR-1	5/23/2012	Total	272	<0.50	44.4	<0.20	<0.080	18000	<0.50	0.83	214	0.33	2720	10.4	<0.20	0.52	<0.50	475	<0.50	1090	<0.10	0.60	<5.0	42.0	<0.0050	56200	77.7	5390	13.8	<0.050	68.0	4.2	<5.0			
		Dissolved	50.4	<0.50	<0.50	42.0	<0.30	<0.080	18600	<0.50	0.50	6.2	<50.0	2720	5.8	<0.20	<0.50	1.5	435	<0.50	<0.60	1080	<0.10	0.19	8.5	42.0	<0.0050	56200	77.7	5390	13.8	<0.050	68.0	4.2	<5.0	
DR-2	5/24/2012	Potentially Dissolved	79.3	<1.0	0.30J	39.2	<0.50	<0.50	15800	0.28J	0.12J	1.8	108	11.0	2510	18.2	<0.20	0.45J	0.60J	443J	<1.0	<0.50	941	0.16J	0.25J	16.1	40.0	<0.0050	60100	84.7	5600	17.0	<0.050	70.0	4.1	<5.0
		Total	248	<0.50	43.0	<0.20	<0.080	19400	0.68	<0.50	1.1	213	0.25	2860	21.0	<0.20	0.57	<0.50	459	<0.50	<0.50	1130	<0.10	0.74	<5.0	40.0	<0.0050	60100	84.7	5600	17.0	<0.050	70.0	4.1	<5.0	
DR-3	5/24/2012	Dissolved	57.8	<0.50	<0.50	39.2	<0.20	<0.080	20100	<0.50	1.1	54.1	<0.10	2710	13.0	<0.20	<0.50	0.56	415	<0.50	<0.50	1070	<0.10	0.19	<5.0	76.0	<0.0050	673000	827	16400	769	<0.050	980	<1.0	<5.0	
		Potentially Dissolved	74.2	<1.0	<1.0	37.5	<0.50	<0.50	17300	0.18J	0.070J	2.0	92.9	6.5	2660	24.2	<0.20	<0.50	0.41J	457J	<1.0	<0.50	971	<1.0	0.27J	<10.0	76.0	<0.0050	673000	827	16400	769	<0.050	980	<1.0	<5.0
DR-4	5/24/2012	Total	512	<0.50	45.0	21.8	0.79	37.9	234000	<0.50	3.9	141	5840	4.4	21600	2620	<0.20	12.6	6.5	1810	<0.50	<0.50	11300	<0.10	0.10	<10.0	84.0	<0.0050	693000	803	16400	755	<0.050	1050	<1.0	9.0
		Dissolved	67.2	<0.50	<0.50	20.7	0.69	34.6	245000	<0.50	3.8	20.8	1390	<0.10	21000	2580	<0.20	11.2	6.4	1810	<0.50	<0.50	10400	<0.10	0.10	6240	84.0	<0.0050	693000	803	16400	755	<0.050	1050	<1.0	9.0
DR-5	5/24/2012	Potentially Dissolved	470	0.17J	0.53J	18.8	0.82	34.7	224000	0.44J	3.3	130	5370	11.6	20800	2480	<0.20	11.1	3.6	1680	<1.0	<0.50	10800	0.19J	<1.0	6160	116	<0.0050	716000	888	15700	762	<0.050	1110	<1.0	<5.0
		Total	424	<0.50	0.50	21.9	0.54	33.7	241000	0.57	3.8	112	4610	4.9	22400	2620	<0.20	12.6	6.4	1800	<0.50	<0.50	11400	<0.10	0.19	5950	84.0	<0.0050	693000	803	16400	755	<0.050	1050	<1.0	9.0
DR-6	5/24/2012	Dissolved	4.0	<0.50	<0.50	20.8	<0.20	28.6	255000	<0.50	3.7	4.2	<50.0	<0.10	21400	2480	<0.20	11.7	6.4	1640	<0.50	<0.50	10600	<0.10	0.10	4660	134	<0.0050	768000	885	18300	799	<0.050	1090	<1.0	<5.0
		Potentially Dissolved	384	0.17J	0.47J	20.0	0.68	32.8	223000	0.32J	3.4	109	4540	8.4	20800	2510	<0.20	12.3	3.6	1680	<1.0	<0.50	10700	0.19J	<1.0	5870	134	<0.0050	768000	885	18300	799	<0.050	1090	<1.0	<5.0
DR-7	5/24/2012	Total	219	<0.50	43.9	<0.20	0.38	26100	<0.50	1.1	220	0.30	3900	63.5	<0.20	<10.0	<0.50	713	<0.50	<0.50	10300	<0.10	0.54	59.9	50.0	<0.0050	81300	119	6150	36.4	<0.050	125	3.8	5.0		
		Dissolved	36.2	<0.50	<0.50	38.8	<0.20	0.29	27900	<0.50	1.2	<50.0	<0.10	3610	52.4	<0.20	0.53	0.64	657	<0.50	<0.50	1730	<0.10	0.17	52.5	50.0	<0.0050	81300	119	6150	36.4	<0.050	125	3.8	5.0	
DR-8	5/24/2012	Potentially Dissolved	72.6	<1.0	0.26J	40.0	<0.50	0.34J	24500	0.24J	0.036J	1.3	114	1.3	3310	56.5	<0.20	0.64J	<1.0	702	<1.0	<0.50	1770	0.14J	0.27J	57.5	76.0	<0.0050	682000	820	17000	735	<0.050	1020	<1.0	16.0
		Total	514	<0.50	45.0	21.5	0.91	37.0	238000	<0.50	3.8	141	5740	4.3	21500	2700	<0.20	12.4	6.4	1620	<0.50	<0.50	11200	<0.10	0.10	6600	76.0	<0.0050	682000	820	17000	735	<0.050	1020	<1.0	16.0
DR-4-SW	5/24/2012	Dissolved	65.7	<0.50	<0.50	21.5	0.62	35.4	254000	<0.50	3.8	19.7	1450	<0.10	21200	2600	<0.20	10.2	6.6	1640	<0.50	<0.50	10400	<0.10	0.10	6300	134	<0.0050	77700	104	5980	22.3	<0.050	109	3.5	<5.0
		Potentially Dissolved	479	0.20J	0.42J	19.2	0.88	35.5	225000	0.33J	3.5	135	5560	5.0	19700	2580	<0.20	11.8	3.8	1690	<1.0	<0.50	10500	0.19J	<1.0	6370	134	<0.0050	77700	104	5980	22.3	<0.050	109	3.5	<5.0

TABLE 4B - Groundwater Analytical Sampling Results Summary, May 2012

Field Sample ID		Date Collected	Fraction	Metals ($\mu\text{g/L}$)																		Non-Metals (mg/L, unless otherwise indicated)															
				Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Alkalinity	Cyanide	Hardness ($\mu\text{g/L}$ as CaCO_3)	Salinity	Silica	Sulfate	Sulfide	TDS	TOC	TSS
GW-1	5/23/2012	Total	2750	<0.50	4.3	110	0.22	0.58	37400	3.0	3.3	19.6	4950	19.4	5330	630	0.30	2.0	5.6	1480	<0.50	<0.50	2060	<0.10	6.3	58.4	90.0	<0.0050	116000	150	16300	27.3	<0.050	119	2.1	72.0	
		Dissolved	<4.0	<0.50	<0.50	41.7	<0.20	<0.080	36400	<0.50	<0.50	1.7	3940	0.73	<0.20	1.2	<0.50	651	<0.50	<0.50	1740	<0.10	<0.10	<0.50	1770	0.13J	<1.0	2.2	40.4								
		Potentially Dissolved	720	0.12J	1.2	90.0	0.15J	0.52	32400	1.0	2.3	13.4	1640	15.2	4200	508	<0.20	0.32J	3.4	784	<1.0	0.27J	1770	0.13J	13.4	292											
GW-3	5/23/2012	Total	6510	<0.50	9.8	126	0.33	1.5	144000	8.5	4.4	39.5	10700	89.6	22000	1000	<0.20	1.6	6.9	3720	4.0	0.42	3650	0.16	13.4	292											
		Dissolved	7.3	<0.50	<0.50	14.0	<0.20	0.30	149000	<0.50	<0.50	0.88	50.0	<0.10	17600	75.2	<0.20	<0.50	0.67	2580	2.6	<0.50	3040	<0.10	<0.10	<0.50	38.6	188	<0.0050	451000	534	32400	250	<0.050	539	1.1	298
		Potentially Dissolved	2760	0.24J	5.0	67.9	0.28J	2.4	128000	4.9	4.3	45.2	6070	65.8	18800	1270	<0.20	0.23J	4.7	2300	2.5	0.92	3070	0.17J	5.4	360											
GW-4	5/24/2012	Total	4030	<0.50	3.7	84.6	<0.20	1.2	168000	<0.50	<0.64	0.61	1060	<0.10	19200	505	<0.20	11.3	4.0	2540	<0.50	<0.50	5100	0.13	8.6	159											
		Dissolved	6.7	<0.50	<0.50	23.5	<0.20	0.12	162000	<0.50	<0.50	0.64	1060	<0.10	19200	505	<0.20	10.2	3.4	1510	<0.50	<0.50	4330	<0.10	<0.10	<0.50	32.3	156	<0.0050	506000	606	24500	392	<0.050	659	<1.0	41.0
		Potentially Dissolved	1230	<1.0	2.0	44.8	0.14J	0.95	149000	2.8	1.5	11.3	4630	20.6	19700	562	<0.20	6.7	0.79J	1700	<1.0	0.056J	4530	0.19J	3.3	121											
GW-5	5/24/2012	Total	20.3	<0.50	<0.50	0.38	<0.20	<0.080	216	<0.50	<0.50	<0.50	50.0	<0.17	111	3.1	<0.20	<0.50	<0.50	20.0	<0.50	<0.50	4610	0.31	<0.10	40400	100	<0.0050	2500	1580	110	1610	<0.050	2080	<1.0	117	
		Dissolved	176	<0.50	38.6	17.3	0.30	5.5	474000	<0.50	41.8	0.94	20300	92.9	44300	11700	<0.20	3.7	58.1	8710	<0.50	<0.50	4610	0.31	<0.10	40400											
		Potentially Dissolved	420	0.17J	78.7	16.6	0.42J	8.4	453000	0.37J	39.3	38.7	23600	1030	44900	11400	<0.20	3.9	51.2	9320	<1.0	0.18J	5000	0.46J	0.39J	3900											
GW-6	NA	Total																																			
		Dissolved																																			
		Potentially Dissolved																																			
GW-7	5/23/2012	Total	3820	<0.50	4.9	18.2	0.63	4.4	246000	3.9	2.2	58.3	14600	377	25200	169	<0.20	2.4	4.9	2760	5.4	0.76	7200	0.14	2.7	392											
		Dissolved	162	<0.50	<0.50	12.2	<0.20	3.4	251000	<0.50	1.4	5.4	611	3.6	22100	120	<0.20	1.1	2.6	2380	1.2	<0.50	6550	<0.10	<0.10	202	228	<0.0050	718000	799	16200	618	<0.050	901	<1.0	100	
		Potentially Dissolved	1760	0.14J	1.0	12.5	0.45J	3.4	217000	1.4	1.5	32.6	7450	225	22800	126	<0.20	0.89J	0.99J	2390	2.2	0.26J	6700	<0.20	<1.0	274											
EB-1	5/23/2012	Total	698	<0.50	8.7	19.1	0.39	2.3	520000	1.0	6.7	42.0	11000	106	32300	5520	<0.20	15.0	6.3	6640	<0.50	<0.50	7930	<0.10	1.0	2020											
		Dissolved	10.1	<0.50	2.2	13.2	<0.20	0.20	496000	<0.50	6.0	<0.50	6210	0.12	28700	4740	<0.20	14.5	5.4	6310	<0.50	<0.50	7210	<0.10	<0.10	1380	192	0.016	1430000	1400	29100	1310	<0.050	1860	<1.0	33.0	
		Potentially Dissolved	298	0.11J	7.1	14.5	0.30J	1.6	437000	0.54J	5.7	27.7	9070	96.1	29200	5020	<0.20	13.8	0.90J	6260	<1.0	0.083J	7620	0.13J	0.57J	1760											
EB-2	5/23/2012	Total	18800	<0.5	40	13.7	8.6	2.6	350000	0.58	86.9	24.7	604000	248	153000	36000	<0.2	0.74	123	14400	1.3	<0.5	7060</														

Appendix C

Project Narrative and Laboratory Analytical Reports

August 09, 2012

Mark DeFriez
Anderson Engineering Company I
977 W 2100 S.
Salt Lake City, UT 84119

RE: Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217 **Amended report, REV-1 on 8/9/12 to add MO to DR-8**

Dear Mark DeFriez:

Enclosed are the analytical results for sample(s) received by the laboratory on May 26, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mary Jane Walls for
Heather Wilson
heather.wilson@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MAY 2012 RICO WATER SAMPLING
 Pace Project No.: 60122217

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
 A2LA Certification #: 2926.01
 Alaska Certification #: UST-078
 Alaska Certification #MN00064
 Arizona Certification #: AZ-0014
 Arkansas Certification #: 88-0680
 California Certification #: 01155CA
 EPA Region 8 Certification #: Pace
 Florida/NELAP Certification #: E87605
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 Illinois Certification #: 200011
 Iowa Certification #: 368
 Kansas Certification #: E-10167
 Louisiana Certification #: 03086
 Louisiana Certification #: LA080009
 Maine Certification #: 2007029
 Maryland Certification #: 322
 Michigan DEQ Certification #: 9909
 Minnesota Certification #: 027-053-137
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 Nevada Certification #: MN_00064
 Nebraska Certification #: Pace
 New Jersey Certification #: MN-002
 New Mexico Certification #: Pace
 New York Certification #: 11647
 North Carolina Certification #: 530
 North Dakota Certification #: R-036
 North Dakota Certification #: R-036A
 Ohio VAP Certification #: CL101
 Oklahoma Certification #: D9921
 Oklahoma Certification #: 9507
 Oregon Certification #: MN200001
 Pennsylvania Certification #: 68-00563
 Puerto Rico Certification
 Tennessee Certification #: 02818
 Texas Certification #: T104704192
 Virginia/DCLS Certification #: 002521
 Virginia/VELAP Certification #: 460163
 Washington Certification #: C754
 Wisconsin Certification #: 999407970

Montana Certification IDs

602 South 25th Street, Billings, MT 59101
 EPA Region 8 Certification #: 8TMS-Q
 Idaho Certification #: MT00012

Montana Certification #: MT CERT0040
 NVLAP Certification #: 101292-0
 Minnesota Dept of Health Certification #: 030-999-442

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219
 A2LA Certification #: 2456.01
 Arkansas Certification #: 12-019-0
 Illinois Certification #: 002885
 Iowa Certification #: 118
 Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055
 Nevada Certification #: KS000212008A
 Oklahoma Certification #: 9205/9935
 Texas Certification #: T104704407-12-3
 Utah Certification #: KS000212012-2

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SAMPLE SUMMARY

Project: MAY 2012 RICO WATER SAMPLING
Pace Project No.: 60122217

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60122217001	DR-1 20120523	Water	05/23/12 08:00	05/26/12 10:00
60122217002	DR-2 20120524	Water	05/24/12 08:00	05/26/12 10:00
60122217003	DR-3 20120524	Water	05/24/12 08:00	05/26/12 10:00
60122217004	DR-4 20120524	Water	05/24/12 08:00	05/26/12 10:00
60122217005	DR-5 20120524	Water	05/24/12 08:00	05/26/12 10:00
60122217006	DR-6 20120524	Water	05/24/12 08:00	05/26/12 10:00
60122217007	DR-7 20120524	Water	05/24/12 08:00	05/26/12 10:00
60122217008	DR-8 20120524	Water	05/24/12 08:00	05/26/12 10:00
60122217009	DR-4 SW 20120524	Water	05/24/12 08:00	05/26/12 10:00
60122217010	DR-G 20120524	Water	05/24/12 08:00	05/26/12 10:00
60122217011	FB 20120524	Water	05/24/12 08:00	05/26/12 10:00
60122217012	GW-1 20120523	Water	05/23/12 08:00	05/26/12 10:00
60122217013	GW-3 20120523	Water	05/23/12 08:00	05/26/12 10:00
60122217014	GW-4 20120524	Water	05/24/12 08:00	05/26/12 10:00
60122217015	GW-5 20120524	Water	05/24/12 08:00	05/26/12 10:00
60122217016	GW-7 20120523	Water	05/23/12 08:00	05/26/12 10:00
60122217017	EB-1 20120523	Water	05/23/12 08:00	05/26/12 10:00
60122217018	EB-2 20120523	Water	05/23/12 08:00	05/26/12 10:00
60122217019	MW-1 SHALLOW 20120523	Water	05/23/12 08:00	05/26/12 10:00
60122217020	MW-1 DEEP 20120523	Water	05/23/12 08:00	05/26/12 10:00
60122217021	MW-2 DEEP 20120524	Water	05/24/12 08:00	05/26/12 10:00
60122217022	MW-3 DEEP 20120524	Water	05/24/12 08:00	05/26/12 10:00
60122217023	MW-4 SHALLOW 20120523	Water	05/23/12 08:00	05/26/12 10:00
60122217024	MW-4 DEEP 20120523	Water	05/24/12 08:00	05/26/12 10:00
60122217025	MW-5 SHALLOW 20120524	Water	05/24/12 08:00	05/26/12 10:00
60122217026	MW-5 DEEP 20120524	Water	05/24/12 08:00	05/26/12 10:00
60122217027	MW-6 SHALLOW 20120523	Water	05/23/12 08:00	05/26/12 10:00
60122217028	MW-6 DEEP 20120523	Water	05/24/12 08:00	05/26/12 10:00

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SAMPLE ANALYTE COUNT

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60122217001	DR-1 20120523	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RJS	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	JMM	3	PASI-K
		SM 2540C	JML	1	PASI-K
		SM 2540D	JML	1	PASI-K
		SM 4500-S-2 D	SRM1	1	PASI-K
		EPA 300.0	JML	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60122217002	DR-2 20120524	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RJS	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	JMM	3	PASI-K
		SM 2540C	JML	1	PASI-K
		SM 2540D	JML	1	PASI-K
		SM 4500-S-2 D	SRM1	1	PASI-K
		EPA 300.0	JML	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60122217003	DR-3 20120524	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RJS	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	JDH	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: MAY 2012 RICO WATER SAMPLING
Pace Project No.: 60122217

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60122217004	DR-4 20120524	EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	JMM	3	PASI-K
		SM 2540C	JML	1	PASI-K
		SM 2540D	JML	1	PASI-K
		SM 4500-S-2 D	SRM1	1	PASI-K
		EPA 300.0	JML	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
		EPA 200.7	JGP	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RJS	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		SM 2510B	WT1	1	
60122217005	DR-5 20120524	Calculated	WT1	2	
		SM 2320B	JMM	3	PASI-K
		SM 2540C	JML	1	PASI-K
		SM 2540D	JML	1	PASI-K
		SM 4500-S-2 D	SRM1	1	PASI-K
		EPA 300.0	JML	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
		EPA 200.7	JGP	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RJS	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		SM 2510B	WT1	1	

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SAMPLE ANALYTE COUNT

Project: MAY 2012 RICO WATER SAMPLING
Pace Project No.: 60122217

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60122217006	DR-6 20120524	SM 2540C	JML	1	PASI-K
		SM 2540D	JML	1	PASI-K
		SM 4500-S-2 D	SRM1	1	PASI-K
		EPA 300.0	JML	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
		EPA 200.7	JGP	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RJS	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	JMM	3	PASI-K
		SM 2540C	JML	1	PASI-K
		SM 2540D	JML	1	PASI-K
60122217007	DR-7 20120524	SM 4500-S-2 D	SRM1	1	PASI-K
		EPA 300.0	JML	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
		EPA 200.7	JGP	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RJS	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	JMM	3	PASI-K
		SM 2540C	JML	1	PASI-K
		SM 2540D	JML	1	PASI-K
		SM 4500-S-2 D	SRM1	1	PASI-K
		EPA 300.0	JML	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: MAY 2012 RICO WATER SAMPLING
Pace Project No.: 60122217

Lab ID	Sample ID	Method	Analysts	Analytics Reported	Laboratory
60122217008	DR-8 20120524	SM 5310C	JML	1	PASI-K
		EPA 200.7	JGP	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RJS	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	JMM	3	PASI-K
		SM 2540C	JML	1	PASI-K
		SM 2540D	JML	1	PASI-K
60122217009	DR-4 SW 20120524	SM 4500-S-2 D	SRM1	1	PASI-K
		EPA 300.0	JML	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
		EPA 200.7	JGP	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RJS	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
60122217010	DR-G 20120524	SM 2320B	NDL	3	PASI-K
		SM 2540C	JML	1	PASI-K
		SM 2540D	JML	1	PASI-K
		SM 4500-S-2 D	SRM1	1	PASI-K
		EPA 300.0	JML	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
		EPA 200.7	JGP	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RJS	23	PASI-M
		EPA 200.8	SMW	19	PASI-K

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SAMPLE ANALYTE COUNT

Project: MAY 2012 RICO WATER SAMPLING
Pace Project No.: 60122217

Lab ID	Sample ID	Method	Analysts	Analytics Reported	Laboratory
60122217011	FB 20120524	EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	NDL	3	PASI-K
		SM 2540C	JML	1	PASI-K
		SM 2540D	JML	1	PASI-K
		SM 4500-S-2 D	SRM1	1	PASI-K
		EPA 300.0	JML	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
		EPA 200.7	JGP	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RJS	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
60122217012	GW-1 20120523	SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	NDL	3	PASI-K
		SM 2540C	JML	1	PASI-K
		SM 2540D	JML	1	PASI-K
		SM 4500-S-2 D	SRM1	1	PASI-K
		EPA 300.0	JML	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
		EPA 200.7	JGP	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RJS	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	JDH	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: MAY 2012 RICO WATER SAMPLING
Pace Project No.: 60122217

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60122217013	GW-3 20120523	SM 2320B	JMM	3	PASI-K
		SM 2540C	JML	1	PASI-K
		SM 2540D	JML	1	PASI-K
		SM 4500-S-2 D	SRM1	1	PASI-K
		EPA 300.0	JML	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
		EPA 200.7	JGP	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RJS	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	JMM	3	PASI-K
		SM 2540C	JML	1	PASI-K
		SM 2540D	JML	1	PASI-K
60122217014	GW-4 20120524	SM 4500-S-2 D	SRM1	1	PASI-K
		EPA 300.0	JML	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
		EPA 200.7	JGP	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RJS	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	NDL	3	PASI-K
		SM 2540C	JML	1	PASI-K
		SM 2540D	JML	1	PASI-K
		SM 4500-S-2 D	SRM1	1	PASI-K
		EPA 300.0	JML	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: MAY 2012 RICO WATER SAMPLING
Pace Project No.: 60122217

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60122217015	GW-5 20120524	SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
		EPA 200.7	JGP	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RJS	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	NDL	3	PASI-K
		SM 2540C	JML	1	PASI-K
		SM 2540D	JML	1	PASI-K
60122217016	GW-7 20120523	SM 4500-S-2 D	SRM1	1	PASI-K
		EPA 300.0	JML	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
		EPA 200.7	JGP	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RJS	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	JMM	3	PASI-K
60122217017	EB-1 20120523	SM 2540C	JML	1	PASI-K
		SM 2540D	JML	1	PASI-K
		SM 4500-S-2 D	SRM1	1	PASI-K
		EPA 300.0	JML	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
		EPA 200.7	JGP	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RJS	23	PASI-M

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SAMPLE ANALYTE COUNT

Project: MAY 2012 RICO WATER SAMPLING
Pace Project No.: 60122217

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60122217018	EB-2 20120523	EPA 200.8	SMW	19	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	JMM	3	PASI-K
		SM 2540C	JML	1	PASI-K
		SM 2540D	JML	1	PASI-K
		SM 4500-S-2 D	SRM1	1	PASI-K
		EPA 300.0	JML	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
		EPA 200.7	JGP	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RJS	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	JMM	3	PASI-K
		SM 2540C	JML	1	PASI-K
		SM 2540D	JML	1	PASI-K
60122217019	MW-1 SHALLOW 20120523	SM 4500-S-2 D	SRM1	1	PASI-K
		EPA 300.0	JML	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
		EPA 200.7	JGP	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RJS	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		SM 2510B	WT1	1	

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SAMPLE ANALYTE COUNT

Project: MAY 2012 RICO WATER SAMPLING
Pace Project No.: 60122217

Lab ID	Sample ID	Method	Analysts	Analytics Reported	Laboratory
60122217020	MW-1 DEEP 20120523	Calculated	WT1	2	
		SM 2320B	JMM	3	PASI-K
		SM 2540C	JML	1	PASI-K
		SM 2540D	JML	1	PASI-K
		SM 4500-S-2 D	SRM1	1	PASI-K
		EPA 300.0	JML	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
		EPA 200.7	JGP	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RJS	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	JMM	3	PASI-K
		SM 2540C	JML	1	PASI-K
		SM 2540D	JML	1	PASI-K
60122217021	MW-2 DEEP 20120524	SM 4500-S-2 D	SRM1	1	PASI-K
		EPA 300.0	JML	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
		EPA 200.7	JGP	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RJS	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	NDL	3	PASI-K
		SM 2540C	JML	1	PASI-K
		SM 2540D	JML	1	PASI-K
		SM 4500-S-2 D	SRM1	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: MAY 2012 RICO WATER SAMPLING
Pace Project No.: 60122217

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60122217022	MW-3 DEEP 20120524	EPA 300.0	JML	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
		EPA 200.7	JGP	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RJS	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	NDL	3	PASI-K
		SM 2540C	JML	1	PASI-K
60122217023	MW-4 SHALLOW 20120523	SM 2540D	JML	1	PASI-K
		SM 4500-S-2 D	SRM1	1	PASI-K
		EPA 300.0	JML	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
		EPA 200.7	JGP	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RJS	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
60122217024	MW-4 DEEP 20120523	SM 2320B	JMM	3	PASI-K
		SM 2540C	JML	1	PASI-K
		SM 2540D	JML	1	PASI-K
		SM 4500-S-2 D	SRM1	1	PASI-K
		EPA 300.0	JML	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
		EPA 200.7	JGP	4	PASI-K
		EPA 200.8	RJS	25	PASI-M

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SAMPLE ANALYTE COUNT

Project: MAY 2012 RICO WATER SAMPLING
Pace Project No.: 60122217

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 200.8	RJS	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	NDL	3	PASI-K
		SM 2540C	JML	1	PASI-K
		SM 2540D	JML	1	PASI-K
		SM 4500-S-2 D	SRM1	1	PASI-K
		EPA 300.0	JML	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60122217025	MW-5 SHALLOW 20120524	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RJS	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	NDL	3	PASI-K
		SM 2540C	JML	1	PASI-K
		SM 2540D	JML	1	PASI-K
		SM 4500-S-2 D	SRM1	1	PASI-K
		EPA 300.0	JML	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60122217026	MW-5 DEEP 20120524	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RJS	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: MAY 2012 RICO WATER SAMPLING
Pace Project No.: 60122217

Lab ID	Sample ID	Method	Analysts	Analytics Reported	Laboratory
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	NDL	3	PASI-K
		SM 2540C	JML	1	PASI-K
		SM 2540D	JML	1	PASI-K
		SM 4500-S-2 D	SRM1	1	PASI-K
		EPA 300.0	JML	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60122217027	MW-6 SHALLOW 20120523	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RJS	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	JMM	3	PASI-K
		SM 2540C	JML	1	PASI-K
		SM 2540D	JML	1	PASI-K
		SM 4500-S-2 D	SRM1	1	PASI-K
		EPA 300.0	JML	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60122217028	MW-6 DEEP 20120523	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RJS	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		EPA 245.1	JDH	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	NDL	3	PASI-K
		SM 2540C	JML	1	PASI-K
		SM 2540D	JML	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: MAY 2012 RICO WATER SAMPLING
Pace Project No.: 60122217

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-S-2 D	SRM1	1	PASI-K
		EPA 300.0	JML	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: DR-1 20120523	Lab ID: 60122217001	Collected: 05/23/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	15800 ug/L		100	1	06/05/12 09:50	06/06/12 17:12	7440-70-2	
Magnesium, Dissolved	2510 ug/L		50.0	1	06/05/12 09:50	06/06/12 17:12	7439-95-4	
Potassium, Dissolved	443J ug/L		500	1	06/05/12 09:50	06/06/12 17:12	7440-09-7	
Sodium, Dissolved	941 ug/L		500	1	06/05/12 09:50	06/06/12 17:12	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	272 ug/L		4.0	1	06/06/12 13:27	06/15/12 10:49	7429-90-5	
Antimony	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 10:49	7440-36-0	
Arsenic	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 10:49	7440-38-2	
Barium	44.4 ug/L		0.30	1	06/06/12 13:27	06/15/12 10:49	7440-39-3	
Beryllium	ND ug/L		0.20	1	06/06/12 13:27	06/15/12 10:49	7440-41-7	
Cadmium	ND ug/L		0.080	1	06/06/12 13:27	06/15/12 10:49	7440-43-9	
Calcium	18000 ug/L		20.0	1	06/06/12 13:27	06/15/12 10:49	7440-70-2	
Chromium	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 10:49	7440-47-3	
Cobalt	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 10:49	7440-48-4	
Copper	0.93 ug/L		0.50	1	06/06/12 13:27	06/15/12 10:49	7440-50-8	
Iron	214 ug/L		50.0	1	06/06/12 13:27	06/15/12 10:49	7439-89-6	
Lead	0.33 ug/L		0.10	1	06/06/12 13:27	06/15/12 10:49	7439-92-1	
Magnesium	2720 ug/L		5.0	1	06/06/12 13:27	06/15/12 10:49	7439-95-4	
Manganese	10.4 ug/L		0.50	1	06/06/12 13:27	06/15/12 10:49	7439-96-5	
Molybdenum	0.52 ug/L		0.50	1	06/06/12 13:27	06/15/12 10:49	7439-98-7	
Nickel	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 10:49	7440-02-0	
Potassium	475 ug/L		20.0	1	06/06/12 13:27	06/15/12 10:49	7440-09-7	
Selenium	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 10:49	7782-49-2	
Silica	5390 ug/L		268	5	06/06/12 13:27	06/15/12 11:03	7631-86-9	
Silver	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 10:49	7440-22-4	
Sodium	1090 ug/L		50.0	1	06/06/12 13:27	06/15/12 10:49	7440-23-5	
Thallium	ND ug/L		0.10	1	06/06/12 13:27	06/15/12 10:49	7440-28-0	CH
Total Hardness by 2340B	56200 ug/L		71.0	1	06/06/12 13:27	06/15/12 10:49		
Vanadium	0.60 ug/L		0.10	1	06/06/12 13:27	06/15/12 10:49	7440-62-2	
Zinc	ND ug/L		5.0	1	06/06/12 13:27	06/15/12 10:49	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	50.4 ug/L		4.0	1	06/06/12 13:23	06/20/12 15:07	7429-90-5	M1
Antimony, Dissolved	ND ug/L		0.50	1	06/06/12 13:23	06/20/12 15:07	7440-36-0	M1
Arsenic, Dissolved	ND ug/L		0.50	1	06/06/12 13:23	06/20/12 15:07	7440-38-2	M1
Barium, Dissolved	42.0 ug/L		0.30	1	06/06/12 13:23	06/20/12 15:07	7440-39-3	M1
Beryllium, Dissolved	ND ug/L		0.20	1	06/06/12 13:23	06/20/12 15:07	7440-41-7	M1
Cadmium, Dissolved	ND ug/L		0.080	1	06/06/12 13:23	06/20/12 15:07	7440-43-9	M1
Calcium, Dissolved	19600 ug/L		20.0	1	06/06/12 13:23	06/20/12 15:07	7440-70-2	M1
Chromium, Dissolved	ND ug/L		0.50	1	06/06/12 13:23	06/20/12 15:07	7440-47-3	M1
Cobalt, Dissolved	ND ug/L		0.50	1	06/06/12 13:23	06/20/12 15:07	7440-48-4	M1
Copper, Dissolved	6.2 ug/L		0.50	1	06/06/12 13:23	06/20/12 15:07	7440-50-8	M1
Iron, Dissolved	ND ug/L		50.0	1	06/06/12 13:23	06/20/12 15:07	7439-89-6	M1
Lead, Dissolved	0.21 ug/L		0.10	1	06/06/12 13:23	06/20/12 15:07	7439-92-1	M1
Magnesium, Dissolved	2720 ug/L		5.0	1	06/06/12 13:23	06/20/12 15:07	7439-95-4	M1

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: DR-1 20120523	Lab ID: 60122217001	Collected: 05/23/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	5.8 ug/L		0.50	1	06/06/12 13:23	06/20/12 15:07	7439-96-5	M1
Molybdenum, Dissolved	ND ug/L		0.50	1	06/06/12 13:23	06/20/12 15:07	7439-98-7	
Nickel, Dissolved	1.5 ug/L		0.50	1	06/06/12 13:23	06/20/12 15:07	7440-02-0	M1
Potassium, Dissolved	435 ug/L		20.0	1	06/06/12 13:23	06/20/12 15:07	7440-09-7	M1
Selenium, Dissolved	ND ug/L		0.50	1	06/06/12 13:23	06/20/12 15:07	7782-49-2	M1
Silver, Dissolved	ND ug/L		0.50	1	06/06/12 13:23	06/20/12 15:07	7440-22-4	M1
Sodium, Dissolved	1080 ug/L		50.0	1	06/06/12 13:23	06/20/12 15:07	7440-23-5	M1
Thallium, Dissolved	ND ug/L		0.10	1	06/06/12 13:23	06/20/12 15:07	7440-28-0	M1
Vanadium, Dissolved	0.19 ug/L		0.10	1	06/06/12 13:23	06/20/12 15:07	7440-62-2	M1
Zinc, Dissolved	8.5 ug/L		5.0	1	06/06/12 13:23	06/20/12 15:07	7440-66-6	M1
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	79.3 ug/L		50.0	1	06/04/12 18:30	06/06/12 13:46	7429-90-5	
Antimony, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/06/12 13:46	7440-36-0	
Arsenic, Dissolved	0.30J ug/L		1.0	1	06/04/12 18:30	06/06/12 13:46	7440-38-2	
Barium, Dissolved	39.2 ug/L		1.0	1	06/04/12 18:30	06/06/12 13:46	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.50	1	06/04/12 18:30	06/06/12 13:46	7440-41-7	
Cadmium, Dissolved	ND ug/L		0.50	1	06/04/12 18:30	06/06/12 13:46	7440-43-9	
Chromium, Dissolved	0.28J ug/L		1.0	1	06/04/12 18:30	06/06/12 13:46	7440-47-3	
Cobalt, Dissolved	0.12J ug/L		1.0	1	06/04/12 18:30	06/06/12 13:46	7440-48-4	
Copper, Dissolved	1.8 ug/L		1.0	1	06/04/12 18:30	06/06/12 13:46	7440-50-8	
Iron, Dissolved	108 ug/L		50.0	1	06/04/12 18:30	06/06/12 13:46	7439-89-6	
Lead, Dissolved	11.0 ug/L		1.0	1	06/04/12 18:30	06/06/12 13:46	7439-92-1	
Manganese, Dissolved	18.2 ug/L		1.0	1	06/04/12 18:30	06/06/12 13:46	7439-96-5	
Molybdenum, Dissolved	0.45J ug/L		1.0	1	06/04/12 18:30	06/06/12 13:46	7439-98-7	
Nickel, Dissolved	0.60J ug/L		1.0	1	06/04/12 18:30	06/06/12 13:46	7440-02-0	
Selenium, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/06/12 13:46	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	06/04/12 18:30	06/06/12 13:46	7440-22-4	
Thallium, Dissolved	0.16J ug/L		1.0	1	06/04/12 18:30	06/06/12 13:46	7440-28-0	
Vanadium, Dissolved	0.25J ug/L		1.0	1	06/04/12 18:30	06/06/12 13:46	7440-62-2	
Zinc, Dissolved	16.1 ug/L		10.0	1	06/04/12 18:30	06/06/12 13:46	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 10:25	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 12:28	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/05/12 13:43	06/06/12 10:05	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	121 umhos/cm		10.0	1			06/04/12 12:56	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	77.7 mg/L		6.0	1			06/07/12 00:00	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: DR-1 20120523	Lab ID: 60122217001	Collected: 05/23/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	0.061 PSU		0.010	1		06/07/12 00:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO ₃)	42.0 mg/L		20.0	1		06/04/12 10:15		
Alkalinity, Carbonate (CaCO ₃)	ND mg/L		20.0	1		06/04/12 10:15		
Alkalinity, Total as CaCO ₃	42.0 mg/L		20.0	1		06/04/12 10:15		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	68.0 mg/L		5.0	1		05/31/12 16:53		H1
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND mg/L		5.0	1		05/31/12 10:36		H1
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND mg/L		0.050	1		05/31/12 07:35	18496-25-8	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	13.8 mg/L		2.0	2		06/06/12 10:44	14808-79-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND mg/L		0.0050	1		06/01/12 17:56	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	4.2 mg/L		1.0	1		06/08/12 09:31	7440-44-0	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: DR-2 20120524	Lab ID: 60122217002	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	17300 ug/L		100	1	06/05/12 09:50	06/06/12 17:14	7440-70-2	
Magnesium, Dissolved	2660 ug/L		50.0	1	06/05/12 09:50	06/06/12 17:14	7439-95-4	
Potassium, Dissolved	457J ug/L		500	1	06/05/12 09:50	06/06/12 17:14	7440-09-7	
Sodium, Dissolved	971 ug/L		500	1	06/05/12 09:50	06/06/12 17:14	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	248 ug/L		4.0	1	06/06/12 13:27	06/15/12 11:08	7429-90-5	
Antimony	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 11:08	7440-36-0	
Arsenic	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 11:08	7440-38-2	
Barium	43.0 ug/L		0.30	1	06/06/12 13:27	06/15/12 11:08	7440-39-3	
Beryllium	ND ug/L		0.20	1	06/06/12 13:27	06/15/12 11:08	7440-41-7	
Cadmium	ND ug/L		0.080	1	06/06/12 13:27	06/15/12 11:08	7440-43-9	
Calcium	19400 ug/L		20.0	1	06/06/12 13:27	06/15/12 11:08	7440-70-2	
Chromium	0.68 ug/L		0.50	1	06/06/12 13:27	06/15/12 11:08	7440-47-3	
Cobalt	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 11:08	7440-48-4	
Copper	1.1 ug/L		0.50	1	06/06/12 13:27	06/15/12 11:08	7440-50-8	
Iron	213 ug/L		50.0	1	06/06/12 13:27	06/15/12 11:08	7439-89-6	
Lead	0.25 ug/L		0.10	1	06/06/12 13:27	06/15/12 11:08	7439-92-1	
Magnesium	2860 ug/L		5.0	1	06/06/12 13:27	06/15/12 11:08	7439-95-4	
Manganese	21.0 ug/L		0.50	1	06/06/12 13:27	06/15/12 11:08	7439-96-5	
Molybdenum	0.57 ug/L		0.50	1	06/06/12 13:27	06/15/12 11:08	7439-98-7	
Nickel	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 11:08	7440-02-0	
Potassium	459 ug/L		20.0	1	06/06/12 13:27	06/15/12 11:08	7440-09-7	
Selenium	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 11:08	7782-49-2	
Silica	5600 ug/L		268	5	06/06/12 13:27	06/15/12 11:12	7631-86-9	
Silver	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 11:08	7440-22-4	
Sodium	1130 ug/L		50.0	1	06/06/12 13:27	06/15/12 11:08	7440-23-5	
Thallium	ND ug/L		0.10	1	06/06/12 13:27	06/15/12 11:08	7440-28-0	CH
Total Hardness by 2340B	60100 ug/L		71.0	1	06/06/12 13:27	06/15/12 11:08		
Vanadium	0.74 ug/L		0.10	1	06/06/12 13:27	06/15/12 11:08	7440-62-2	
Zinc	ND ug/L		5.0	1	06/06/12 13:27	06/15/12 11:08	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	57.8 ug/L		4.0	1	06/06/12 13:24	06/20/12 15:44	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 15:44	7440-36-0	
Arsenic, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 15:44	7440-38-2	
Barium, Dissolved	39.2 ug/L		0.30	1	06/06/12 13:24	06/20/12 15:44	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	06/06/12 13:24	06/20/12 15:44	7440-41-7	
Cadmium, Dissolved	ND ug/L		0.080	1	06/06/12 13:24	06/20/12 15:44	7440-43-9	
Calcium, Dissolved	20100 ug/L		20.0	1	06/06/12 13:24	06/20/12 15:44	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 15:44	7440-47-3	
Cobalt, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 15:44	7440-48-4	
Copper, Dissolved	1.1 ug/L		0.50	1	06/06/12 13:24	06/20/12 15:44	7440-50-8	
Iron, Dissolved	54.1 ug/L		50.0	1	06/06/12 13:24	06/20/12 15:44	7439-89-6	
Lead, Dissolved	ND ug/L		0.10	1	06/06/12 13:24	06/20/12 15:44	7439-92-1	
Magnesium, Dissolved	2710 ug/L		5.0	1	06/06/12 13:24	06/20/12 15:44	7439-95-4	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: DR-2 20120524	Lab ID: 60122217002	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	13.0 ug/L		0.50	1	06/06/12 13:24	06/20/12 15:44	7439-96-5	
Molybdenum, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 15:44	7439-98-7	
Nickel, Dissolved	0.56 ug/L		0.50	1	06/06/12 13:24	06/20/12 15:44	7440-02-0	
Potassium, Dissolved	415 ug/L		20.0	1	06/06/12 13:24	06/20/12 15:44	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 15:44	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 15:44	7440-22-4	
Sodium, Dissolved	1070 ug/L		50.0	1	06/06/12 13:24	06/20/12 15:44	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	06/06/12 13:24	06/20/12 15:44	7440-28-0	
Vanadium, Dissolved	0.19 ug/L		0.10	1	06/06/12 13:24	06/20/12 15:44	7440-62-2	
Zinc, Dissolved	ND ug/L		5.0	1	06/06/12 13:24	06/20/12 15:44	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	74.2 ug/L		50.0	1	06/04/12 18:30	06/06/12 13:50	7429-90-5	
Antimony, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/06/12 13:50	7440-36-0	
Arsenic, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/06/12 13:50	7440-38-2	
Barium, Dissolved	37.5 ug/L		1.0	1	06/04/12 18:30	06/06/12 13:50	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.50	1	06/04/12 18:30	06/06/12 13:50	7440-41-7	
Cadmium, Dissolved	ND ug/L		0.50	1	06/04/12 18:30	06/06/12 13:50	7440-43-9	
Chromium, Dissolved	0.18J ug/L		1.0	1	06/04/12 18:30	06/06/12 13:50	7440-47-3	
Cobalt, Dissolved	0.070J ug/L		1.0	1	06/04/12 18:30	06/06/12 13:50	7440-48-4	
Copper, Dissolved	2.0 ug/L		1.0	1	06/04/12 18:30	06/06/12 13:50	7440-50-8	
Iron, Dissolved	92.9 ug/L		50.0	1	06/04/12 18:30	06/06/12 13:50	7439-89-6	
Lead, Dissolved	6.5 ug/L		1.0	1	06/04/12 18:30	06/06/12 13:50	7439-92-1	
Manganese, Dissolved	24.2 ug/L		1.0	1	06/04/12 18:30	06/06/12 13:50	7439-96-5	
Molybdenum, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/06/12 13:50	7439-98-7	
Nickel, Dissolved	0.41J ug/L		1.0	1	06/04/12 18:30	06/06/12 13:50	7440-02-0	
Selenium, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/06/12 13:50	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	06/04/12 18:30	06/06/12 13:50	7440-22-4	
Thallium, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/06/12 13:50	7440-28-0	
Vanadium, Dissolved	0.27J ug/L		1.0	1	06/04/12 18:30	06/06/12 13:50	7440-62-2	
Zinc, Dissolved	ND ug/L		10.0	1	06/04/12 18:30	06/06/12 13:50	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 10:31	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 12:41	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/05/12 13:43	06/06/12 10:11	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	132 umhos/cm		10.0	1			06/04/12 12:57	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	84.7 mg/L		6.0	1			06/07/12 00:00	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING
Pace Project No.: 60122217

Sample: DR-2 20120524	Lab ID: 60122217002	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	0.066 PSU		0.010	1		06/07/12 00:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO ₃)	40.0 mg/L		20.0	1		06/04/12 14:15		
Alkalinity, Carbonate (CaCO ₃)	ND mg/L		20.0	1		06/04/12 14:15		
Alkalinity, Total as CaCO ₃	40.0 mg/L		20.0	1		06/04/12 14:15		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	70.0 mg/L		5.0	1		05/31/12 16:47		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND mg/L		5.0	1		05/31/12 14:56		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND mg/L		0.050	1		05/31/12 05:41	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	17.0 mg/L		2.0	2		06/06/12 11:39	14808-79-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND mg/L		0.0050	1		06/01/12 18:10	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	4.1 mg/L		1.0	1		06/08/12 09:59	7440-44-0	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: DR-3 20120524	Lab ID: 60122217003	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	224000 ug/L		100	1	06/05/12 09:50	06/06/12 17:16	7440-70-2	
Magnesium, Dissolved	20800 ug/L		50.0	1	06/05/12 09:50	06/06/12 17:16	7439-95-4	
Potassium, Dissolved	1680 ug/L		500	1	06/05/12 09:50	06/06/12 17:16	7440-09-7	
Sodium, Dissolved	10800 ug/L		500	1	06/05/12 09:50	06/06/12 17:16	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	512 ug/L		4.0	1	06/06/12 13:27	06/15/12 11:17	7429-90-5	
Antimony	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 11:17	7440-36-0	
Arsenic	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 11:17	7440-38-2	
Barium	21.8 ug/L		0.30	1	06/06/12 13:27	06/15/12 11:17	7440-39-3	
Beryllium	0.79 ug/L		0.20	1	06/06/12 13:27	06/15/12 11:17	7440-41-7	
Cadmium	37.9 ug/L		0.080	1	06/06/12 13:27	06/15/12 11:17	7440-43-9	
Calcium	234000 ug/L		400	20	06/06/12 13:27	06/15/12 11:22	7440-70-2	
Chromium	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 11:17	7440-47-3	
Cobalt	3.9 ug/L		0.50	1	06/06/12 13:27	06/15/12 11:17	7440-48-4	
Copper	141 ug/L		0.50	1	06/06/12 13:27	06/15/12 11:17	7440-50-8	
Iron	5840 ug/L		50.0	1	06/06/12 13:27	06/15/12 11:17	7439-89-6	
Lead	4.4 ug/L		0.10	1	06/06/12 13:27	06/15/12 11:17	7439-92-1	
Magnesium	21600 ug/L		5.0	1	06/06/12 13:27	06/15/12 11:17	7439-95-4	
Manganese	2620 ug/L		10.0	20	06/06/12 13:27	06/15/12 11:22	7439-96-5	
Molybdenum	12.6 ug/L		0.50	1	06/06/12 13:27	06/15/12 11:17	7439-98-7	
Nickel	6.5 ug/L		0.50	1	06/06/12 13:27	06/15/12 11:17	7440-02-0	
Potassium	1610 ug/L		20.0	1	06/06/12 13:27	06/15/12 11:17	7440-09-7	
Selenium	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 11:17	7782-49-2	
Silica	16400 ug/L		1070	20	06/06/12 13:27	06/15/12 11:22	7631-86-9	
Silver	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 11:17	7440-22-4	
Sodium	11300 ug/L		50.0	1	06/06/12 13:27	06/15/12 11:17	7440-23-5	
Thallium	ND ug/L		0.10	1	06/06/12 13:27	06/15/12 11:17	7440-28-0	CH
Total Hardness by 2340B	673000 ug/L		1420	20	06/06/12 13:27	06/15/12 11:22		
Vanadium	ND ug/L		0.10	1	06/06/12 13:27	06/15/12 11:17	7440-62-2	
Zinc	6510 ug/L		100	20	06/06/12 13:27	06/15/12 11:22	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	67.2 ug/L		4.0	1	06/06/12 13:24	06/20/12 15:53	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 15:53	7440-36-0	
Arsenic, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 15:53	7440-38-2	
Barium, Dissolved	20.7 ug/L		0.30	1	06/06/12 13:24	06/20/12 15:53	7440-39-3	
Beryllium, Dissolved	0.69 ug/L		0.20	1	06/06/12 13:24	06/20/12 15:53	7440-41-7	
Cadmium, Dissolved	34.6 ug/L		0.080	1	06/06/12 13:24	06/20/12 15:53	7440-43-9	
Calcium, Dissolved	249000 ug/L		400	20	06/06/12 13:24	06/20/12 15:58	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 15:53	7440-47-3	
Cobalt, Dissolved	3.8 ug/L		0.50	1	06/06/12 13:24	06/20/12 15:53	7440-48-4	
Copper, Dissolved	20.8 ug/L		0.50	1	06/06/12 13:24	06/20/12 15:53	7440-50-8	
Iron, Dissolved	1380 ug/L		50.0	1	06/06/12 13:24	06/20/12 15:53	7439-89-6	
Lead, Dissolved	ND ug/L		0.10	1	06/06/12 13:24	06/20/12 15:53	7439-92-1	
Magnesium, Dissolved	21000 ug/L		5.0	1	06/06/12 13:24	06/20/12 15:53	7439-95-4	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: DR-3 20120524	Lab ID: 60122217003	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	2580 ug/L		10.0	20	06/06/12 13:24	06/20/12 15:58	7439-96-5	
Molybdenum, Dissolved	11.2 ug/L		0.50	1	06/06/12 13:24	06/20/12 15:53	7439-98-7	
Nickel, Dissolved	6.4 ug/L		0.50	1	06/06/12 13:24	06/20/12 15:53	7440-02-0	
Potassium, Dissolved	1610 ug/L		20.0	1	06/06/12 13:24	06/20/12 15:53	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 15:53	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 15:53	7440-22-4	
Sodium, Dissolved	10400 ug/L		50.0	1	06/06/12 13:24	06/20/12 15:53	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	06/06/12 13:24	06/20/12 15:53	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	06/06/12 13:24	06/20/12 15:53	7440-62-2	
Zinc, Dissolved	6240 ug/L		100	20	06/06/12 13:24	06/20/12 15:58	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	470 ug/L		50.0	1	06/04/12 18:30	06/06/12 13:54	7429-90-5	
Antimony, Dissolved	0.17J ug/L		1.0	1	06/04/12 18:30	06/06/12 13:54	7440-36-0	
Arsenic, Dissolved	0.53J ug/L		1.0	1	06/04/12 18:30	06/06/12 13:54	7440-38-2	
Barium, Dissolved	18.8 ug/L		1.0	1	06/04/12 18:30	06/06/12 13:54	7440-39-3	
Beryllium, Dissolved	0.82 ug/L		0.50	1	06/04/12 18:30	06/06/12 13:54	7440-41-7	
Cadmium, Dissolved	33.7 ug/L		0.50	1	06/04/12 18:30	06/06/12 13:54	7440-43-9	
Chromium, Dissolved	0.44J ug/L		1.0	1	06/04/12 18:30	06/06/12 13:54	7440-47-3	
Cobalt, Dissolved	3.3 ug/L		1.0	1	06/04/12 18:30	06/06/12 13:54	7440-48-4	
Copper, Dissolved	130 ug/L		1.0	1	06/04/12 18:30	06/06/12 13:54	7440-50-8	
Iron, Dissolved	5370 ug/L		50.0	1	06/04/12 18:30	06/06/12 13:54	7439-89-6	
Lead, Dissolved	11.6 ug/L		1.0	1	06/04/12 18:30	06/06/12 13:54	7439-92-1	
Manganese, Dissolved	2480 ug/L		1.0	1	06/04/12 18:30	06/06/12 13:54	7439-96-5	
Molybdenum, Dissolved	11.1 ug/L		1.0	1	06/04/12 18:30	06/06/12 13:54	7439-98-7	
Nickel, Dissolved	3.6 ug/L		1.0	1	06/04/12 18:30	06/06/12 13:54	7440-02-0	
Selenium, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/06/12 13:54	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	06/04/12 18:30	06/06/12 13:54	7440-22-4	
Thallium, Dissolved	0.19J ug/L		1.0	1	06/04/12 18:30	06/06/12 13:54	7440-28-0	
Vanadium, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/06/12 13:54	7440-62-2	
Zinc, Dissolved	6160 ug/L		50.0	5	06/04/12 18:30	06/06/12 15:40	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 10:39	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 12:48	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/05/12 13:43	06/06/12 10:18	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	1290 umhos/cm		10.0	1			06/04/12 12:59	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	827 mg/L		6.0	1			06/07/12 00:00	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING
Pace Project No.: 60122217

Sample: DR-3 20120524	Lab ID: 60122217003	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	0.64	PSU	0.010	1		06/07/12 00:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO ₃)	76.0	mg/L	20.0	1		06/04/12 14:15		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		06/04/12 14:15		
Alkalinity, Total as CaCO ₃	76.0	mg/L	20.0	1		06/04/12 14:15		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	980	mg/L	5.0	1		05/31/12 16:47		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND	mg/L	5.0	1		05/31/12 14:57		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		05/31/12 05:42	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	769	mg/L	50.0	50		06/06/12 11:57	14808-79-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		06/01/12 18:13	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		06/08/12 10:28	7440-44-0	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: DR-4 20120524	Lab ID: 60122217004	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	223000 ug/L		100	1	06/05/12 09:50	06/06/12 17:19	7440-70-2	
Magnesium, Dissolved	20800 ug/L		50.0	1	06/05/12 09:50	06/06/12 17:19	7439-95-4	
Potassium, Dissolved	1680 ug/L		500	1	06/05/12 09:50	06/06/12 17:19	7440-09-7	
Sodium, Dissolved	10700 ug/L		500	1	06/05/12 09:50	06/06/12 17:19	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	424 ug/L		4.0	1	06/06/12 13:27	06/15/12 11:36	7429-90-5	
Antimony	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 11:36	7440-36-0	
Arsenic	0.50 ug/L		0.50	1	06/06/12 13:27	06/15/12 11:36	7440-38-2	
Barium	21.9 ug/L		0.30	1	06/06/12 13:27	06/15/12 11:36	7440-39-3	
Beryllium	0.54 ug/L		0.20	1	06/06/12 13:27	06/15/12 11:36	7440-41-7	
Cadmium	33.7 ug/L		0.080	1	06/06/12 13:27	06/15/12 11:36	7440-43-9	
Calcium	241000 ug/L		400	20	06/06/12 13:27	06/15/12 11:40	7440-70-2	
Chromium	0.57 ug/L		0.50	1	06/06/12 13:27	06/15/12 11:36	7440-47-3	
Cobalt	3.8 ug/L		0.50	1	06/06/12 13:27	06/15/12 11:36	7440-48-4	
Copper	112 ug/L		0.50	1	06/06/12 13:27	06/15/12 11:36	7440-50-8	
Iron	4610 ug/L		50.0	1	06/06/12 13:27	06/15/12 11:36	7439-89-6	
Lead	4.9 ug/L		0.10	1	06/06/12 13:27	06/15/12 11:36	7439-92-1	
Magnesium	22100 ug/L		5.0	1	06/06/12 13:27	06/15/12 11:36	7439-95-4	
Manganese	2600 ug/L		10.0	20	06/06/12 13:27	06/15/12 11:40	7439-96-5	
Molybdenum	12.6 ug/L		0.50	1	06/06/12 13:27	06/15/12 11:36	7439-98-7	
Nickel	6.4 ug/L		0.50	1	06/06/12 13:27	06/15/12 11:36	7440-02-0	
Potassium	1680 ug/L		20.0	1	06/06/12 13:27	06/15/12 11:36	7440-09-7	
Selenium	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 11:36	7782-49-2	
Silica	16400 ug/L		1070	20	06/06/12 13:27	06/15/12 11:40	7631-86-9	
Silver	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 11:36	7440-22-4	
Sodium	11400 ug/L		50.0	1	06/06/12 13:27	06/15/12 11:36	7440-23-5	
Thallium	ND ug/L		0.10	1	06/06/12 13:27	06/15/12 11:36	7440-28-0	
Total Hardness by 2340B	693000 ug/L		1420	20	06/06/12 13:27	06/15/12 11:40		
Vanadium	ND ug/L		0.10	1	06/06/12 13:27	06/15/12 11:36	7440-62-2	
Zinc	5960 ug/L		100	20	06/06/12 13:27	06/15/12 11:40	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	ND ug/L		4.0	1	06/06/12 13:24	06/20/12 16:02	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 16:02	7440-36-0	
Arsenic, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 16:02	7440-38-2	
Barium, Dissolved	20.8 ug/L		0.30	1	06/06/12 13:24	06/20/12 16:02	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	06/06/12 13:24	06/20/12 16:02	7440-41-7	
Cadmium, Dissolved	28.6 ug/L		0.080	1	06/06/12 13:24	06/20/12 16:02	7440-43-9	
Calcium, Dissolved	255000 ug/L		400	20	06/06/12 13:24	06/20/12 16:07	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 16:02	7440-47-3	
Cobalt, Dissolved	3.7 ug/L		0.50	1	06/06/12 13:24	06/20/12 16:02	7440-48-4	
Copper, Dissolved	4.2 ug/L		0.50	1	06/06/12 13:24	06/20/12 16:02	7440-50-8	
Iron, Dissolved	ND ug/L		50.0	1	06/06/12 13:24	06/20/12 16:02	7439-89-6	
Lead, Dissolved	ND ug/L		0.10	1	06/06/12 13:24	06/20/12 16:02	7439-92-1	
Magnesium, Dissolved	21400 ug/L		5.0	1	06/06/12 13:24	06/20/12 16:02	7439-95-4	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: DR-4 20120524	Lab ID: 60122217004	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	2480 ug/L		10.0	20	06/06/12 13:24	06/20/12 16:07	7439-96-5	
Molybdenum, Dissolved	11.7 ug/L		0.50	1	06/06/12 13:24	06/20/12 16:02	7439-98-7	
Nickel, Dissolved	6.4 ug/L		0.50	1	06/06/12 13:24	06/20/12 16:02	7440-02-0	
Potassium, Dissolved	1640 ug/L		20.0	1	06/06/12 13:24	06/20/12 16:02	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 16:02	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 16:02	7440-22-4	
Sodium, Dissolved	10600 ug/L		50.0	1	06/06/12 13:24	06/20/12 16:02	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	06/06/12 13:24	06/20/12 16:02	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	06/06/12 13:24	06/20/12 16:02	7440-62-2	
Zinc, Dissolved	4660 ug/L		100	20	06/06/12 13:24	06/20/12 16:07	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	384 ug/L		50.0	1	06/04/12 18:30	06/06/12 13:58	7429-90-5	
Antimony, Dissolved	0.17J ug/L		1.0	1	06/04/12 18:30	06/06/12 13:58	7440-36-0	
Arsenic, Dissolved	0.47J ug/L		1.0	1	06/04/12 18:30	06/06/12 13:58	7440-38-2	
Barium, Dissolved	20.0 ug/L		1.0	1	06/04/12 18:30	06/06/12 13:58	7440-39-3	
Beryllium, Dissolved	0.68 ug/L		0.50	1	06/04/12 18:30	06/06/12 13:58	7440-41-7	
Cadmium, Dissolved	32.8 ug/L		0.50	1	06/04/12 18:30	06/06/12 13:58	7440-43-9	
Chromium, Dissolved	0.32J ug/L		1.0	1	06/04/12 18:30	06/06/12 13:58	7440-47-3	
Cobalt, Dissolved	3.4 ug/L		1.0	1	06/04/12 18:30	06/06/12 13:58	7440-48-4	
Copper, Dissolved	109 ug/L		1.0	1	06/04/12 18:30	06/06/12 13:58	7440-50-8	
Iron, Dissolved	4540 ug/L		50.0	1	06/04/12 18:30	06/06/12 13:58	7439-89-6	
Lead, Dissolved	8.4 ug/L		1.0	1	06/04/12 18:30	06/06/12 13:58	7439-92-1	
Manganese, Dissolved	2510 ug/L		5.0	5	06/04/12 18:30	06/06/12 15:44	7439-96-5	
Molybdenum, Dissolved	12.3 ug/L		1.0	1	06/04/12 18:30	06/06/12 13:58	7439-98-7	
Nickel, Dissolved	3.6 ug/L		1.0	1	06/04/12 18:30	06/06/12 13:58	7440-02-0	
Selenium, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/06/12 13:58	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	06/04/12 18:30	06/06/12 13:58	7440-22-4	
Thallium, Dissolved	0.19J ug/L		1.0	1	06/04/12 18:30	06/06/12 13:58	7440-28-0	
Vanadium, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/06/12 13:58	7440-62-2	
Zinc, Dissolved	5870 ug/L		50.0	5	06/04/12 18:30	06/06/12 15:44	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 10:41	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 12:50	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/05/12 13:43	06/06/12 10:20	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	1250 umhos/cm		10.0	1			06/04/12 13:00	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	803 mg/L		6.0	1			06/07/12 00:00	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING
Pace Project No.: 60122217

Sample: DR-4 20120524	Lab ID: 60122217004	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	0.62 PSU		0.010	1		06/07/12 00:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO ₃)	84.0 mg/L		20.0	1		06/04/12 14:15		
Alkalinity, Carbonate (CaCO ₃)	ND mg/L		20.0	1		06/04/12 14:15		
Alkalinity, Total as CaCO ₃	84.0 mg/L		20.0	1		06/04/12 14:15		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	1050 mg/L		5.0	1		05/31/12 16:47		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	9.0 mg/L		5.0	1		05/31/12 14:57		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND mg/L		0.050	1		05/31/12 05:42	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	755 mg/L		50.0	50		06/06/12 12:15	14808-79-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND mg/L		0.0050	1		06/01/12 18:14	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND mg/L		1.0	1		06/08/12 11:10	7440-44-0	

ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: DR-5 20120524	Lab ID: 60122217005	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	236000 ug/L		100	1	06/05/12 09:50	06/06/12 17:21	7440-70-2	
Magnesium, Dissolved	22400 ug/L		50.0	1	06/05/12 09:50	06/06/12 17:21	7439-95-4	
Potassium, Dissolved	1980 ug/L		500	1	06/05/12 09:50	06/06/12 17:21	7440-09-7	
Sodium, Dissolved	11400 ug/L		500	1	06/05/12 09:50	06/06/12 17:21	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	106 ug/L		4.0	1	06/06/12 13:27	06/15/12 11:45	7429-90-5	
Antimony	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 11:45	7440-36-0	
Arsenic	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 11:45	7440-38-2	
Barium	21.6 ug/L		0.30	1	06/06/12 13:27	06/15/12 11:45	7440-39-3	
Beryllium	0.25 ug/L		0.20	1	06/06/12 13:27	06/15/12 11:45	7440-41-7	
Cadmium	22.8 ug/L		0.080	1	06/06/12 13:27	06/15/12 11:45	7440-43-9	
Calcium	249000 ug/L		400	20	06/06/12 13:27	06/15/12 11:50	7440-70-2	
Chromium	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 11:45	7440-47-3	
Cobalt	3.1 ug/L		0.50	1	06/06/12 13:27	06/15/12 11:45	7440-48-4	
Copper	25.7 ug/L		0.50	1	06/06/12 13:27	06/15/12 11:45	7440-50-8	
Iron	1240 ug/L		50.0	1	06/06/12 13:27	06/15/12 11:45	7439-89-6	
Lead	1.4 ug/L		0.10	1	06/06/12 13:27	06/15/12 11:45	7439-92-1	
Magnesium	23100 ug/L		100	20	06/06/12 13:27	06/15/12 11:50	7439-95-4	
Manganese	2240 ug/L		10.0	20	06/06/12 13:27	06/15/12 11:50	7439-96-5	
Molybdenum	11.7 ug/L		0.50	1	06/06/12 13:27	06/15/12 11:45	7439-98-7	
Nickel	5.4 ug/L		0.50	1	06/06/12 13:27	06/15/12 11:45	7440-02-0	
Potassium	1890 ug/L		20.0	1	06/06/12 13:27	06/15/12 11:45	7440-09-7	
Selenium	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 11:45	7782-49-2	
Silica	15700 ug/L		1070	20	06/06/12 13:27	06/15/12 11:50	7631-86-9	
Silver	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 11:45	7440-22-4	
Sodium	12000 ug/L		50.0	1	06/06/12 13:27	06/15/12 11:45	7440-23-5	
Thallium	ND ug/L		0.10	1	06/06/12 13:27	06/15/12 11:45	7440-28-0	
Total Hardness by 2340B	716000 ug/L		1420	20	06/06/12 13:27	06/15/12 11:50		
Vanadium	ND ug/L		0.10	1	06/06/12 13:27	06/15/12 11:45	7440-62-2	
Zinc	3610 ug/L		100	20	06/06/12 13:27	06/15/12 11:50	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	7.9 ug/L		4.0	1	06/06/12 13:24	06/20/12 16:11	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 16:11	7440-36-0	
Arsenic, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 16:11	7440-38-2	
Barium, Dissolved	22.0 ug/L		0.30	1	06/06/12 13:24	06/20/12 16:11	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	06/06/12 13:24	06/20/12 16:11	7440-41-7	
Cadmium, Dissolved	21.7 ug/L		0.080	1	06/06/12 13:24	06/20/12 16:11	7440-43-9	
Calcium, Dissolved	244000 ug/L		400	20	06/06/12 13:24	06/21/12 07:31	7440-70-2	
Chromium, Dissolved	0.60 ug/L		0.50	1	06/06/12 13:24	06/20/12 16:11	7440-47-3	
Cobalt, Dissolved	3.1 ug/L		0.50	1	06/06/12 13:24	06/20/12 16:11	7440-48-4	
Copper, Dissolved	2.9 ug/L		0.50	1	06/06/12 13:24	06/20/12 16:11	7440-50-8	
Iron, Dissolved	ND ug/L		50.0	1	06/06/12 13:24	06/20/12 16:11	7439-89-6	
Lead, Dissolved	ND ug/L		0.10	1	06/06/12 13:24	06/20/12 16:11	7439-92-1	
Magnesium, Dissolved	23200 ug/L		50.0	10	06/06/12 13:24	06/20/12 16:16	7439-95-4	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: DR-5 20120524	Lab ID: 60122217005	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	2370 ug/L		5.0	10	06/06/12 13:24	06/20/12 16:16	7439-96-5	
Molybdenum, Dissolved	11.7 ug/L		0.50	1	06/06/12 13:24	06/20/12 16:11	7439-98-7	
Nickel, Dissolved	6.0 ug/L		0.50	1	06/06/12 13:24	06/20/12 16:11	7440-02-0	
Potassium, Dissolved	1940 ug/L		20.0	1	06/06/12 13:24	06/20/12 16:11	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 16:11	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 16:11	7440-22-4	
Sodium, Dissolved	11300 ug/L		50.0	1	06/06/12 13:24	06/20/12 16:11	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	06/06/12 13:24	06/20/12 16:11	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	06/06/12 13:24	06/20/12 16:11	7440-62-2	
Zinc, Dissolved	3370 ug/L		50.0	10	06/06/12 13:24	06/20/12 16:16	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	90.9 ug/L		50.0	1	06/04/12 18:30	06/06/12 14:02	7429-90-5	
Antimony, Dissolved	0.15J ug/L		1.0	1	06/04/12 18:30	06/06/12 14:02	7440-36-0	
Arsenic, Dissolved	0.26J ug/L		1.0	1	06/04/12 18:30	06/06/12 14:02	7440-38-2	
Barium, Dissolved	19.5 ug/L		1.0	1	06/04/12 18:30	06/06/12 14:02	7440-39-3	
Beryllium, Dissolved	0.18J ug/L		0.50	1	06/04/12 18:30	06/06/12 14:02	7440-41-7	
Cadmium, Dissolved	22.0 ug/L		0.50	1	06/04/12 18:30	06/06/12 14:02	7440-43-9	
Chromium, Dissolved	0.24J ug/L		1.0	1	06/04/12 18:30	06/06/12 14:02	7440-47-3	
Cobalt, Dissolved	2.8 ug/L		1.0	1	06/04/12 18:30	06/06/12 14:02	7440-48-4	
Copper, Dissolved	25.6 ug/L		1.0	1	06/04/12 18:30	06/06/12 14:02	7440-50-8	
Iron, Dissolved	1260 ug/L		50.0	1	06/04/12 18:30	06/06/12 14:02	7439-89-6	
Lead, Dissolved	4.5 ug/L		1.0	1	06/04/12 18:30	06/06/12 14:02	7439-92-1	
Manganese, Dissolved	2260 ug/L		1.0	1	06/04/12 18:30	06/06/12 14:02	7439-96-5	
Molybdenum, Dissolved	11.3 ug/L		1.0	1	06/04/12 18:30	06/06/12 14:02	7439-98-7	
Nickel, Dissolved	2.9 ug/L		1.0	1	06/04/12 18:30	06/06/12 14:02	7440-02-0	
Selenium, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/06/12 14:02	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	06/04/12 18:30	06/06/12 14:02	7440-22-4	
Thallium, Dissolved	0.18J ug/L		1.0	1	06/04/12 18:30	06/06/12 14:02	7440-28-0	
Vanadium, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/06/12 14:02	7440-62-2	
Zinc, Dissolved	3610 ug/L		10.0	1	06/04/12 18:30	06/06/12 14:02	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 10:48	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 12:52	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/05/12 13:43	06/06/12 10:27	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	1390 umhos/cm		10.0	1			06/04/12 13:01	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	888 mg/L		6.0	1			06/07/12 00:00	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: DR-5 20120524	Lab ID: 60122217005	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	0.69	PSU	0.010	1		06/07/12 00:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO ₃)	116	mg/L	20.0	1		06/04/12 14:15		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		06/04/12 14:15		
Alkalinity, Total as CaCO ₃	116	mg/L	20.0	1		06/04/12 14:15		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	1110	mg/L	5.0	1		05/31/12 16:48		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND	mg/L	5.0	1		05/31/12 14:57		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		05/31/12 05:43	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	762	mg/L	50.0	50		06/06/12 12:33	14808-79-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		06/01/12 18:14	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		06/08/12 11:23	7440-44-0	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: DR-6 20120524	Lab ID: 60122217006	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	241000 ug/L		100	1	06/05/12 09:50	06/06/12 17:29	7440-70-2	
Magnesium, Dissolved	24000 ug/L		50.0	1	06/05/12 09:50	06/06/12 17:29	7439-95-4	
Potassium, Dissolved	2710 ug/L		500	1	06/05/12 09:50	06/06/12 17:29	7440-09-7	
Sodium, Dissolved	13600 ug/L		500	1	06/05/12 09:50	06/06/12 17:29	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	27.8 ug/L		4.0	1	06/06/12 13:27	06/15/12 11:54	7429-90-5	
Antimony	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 11:54	7440-36-0	
Arsenic	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 11:54	7440-38-2	
Barium	23.1 ug/L		0.30	1	06/06/12 13:27	06/15/12 11:54	7440-39-3	
Beryllium	ND ug/L		0.20	1	06/06/12 13:27	06/15/12 11:54	7440-41-7	
Cadmium	19.5 ug/L		0.080	1	06/06/12 13:27	06/15/12 11:54	7440-43-9	
Calcium	265000 ug/L		400	20	06/06/12 13:27	06/15/12 11:59	7440-70-2	
Chromium	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 11:54	7440-47-3	
Cobalt	2.5 ug/L		0.50	1	06/06/12 13:27	06/15/12 11:54	7440-48-4	
Copper	7.6 ug/L		0.50	1	06/06/12 13:27	06/15/12 11:54	7440-50-8	
Iron	459 ug/L		50.0	1	06/06/12 13:27	06/15/12 11:54	7439-89-6	
Lead	0.47 ug/L		0.10	1	06/06/12 13:27	06/15/12 11:54	7439-92-1	
Magnesium	26000 ug/L		100	20	06/06/12 13:27	06/15/12 11:59	7439-95-4	
Manganese	2070 ug/L		10.0	20	06/06/12 13:27	06/15/12 11:59	7439-96-5	
Molybdenum	10.9 ug/L		0.50	1	06/06/12 13:27	06/15/12 11:54	7439-98-7	
Nickel	4.6 ug/L		0.50	1	06/06/12 13:27	06/15/12 11:54	7440-02-0	
Potassium	2720 ug/L		20.0	1	06/06/12 13:27	06/15/12 11:54	7440-09-7	
Selenium	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 11:54	7782-49-2	
Silica	18300 ug/L		1070	20	06/06/12 13:27	06/15/12 11:59	7631-86-9	
Silver	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 11:54	7440-22-4	
Sodium	14800 ug/L		50.0	1	06/06/12 13:27	06/15/12 11:54	7440-23-5	
Thallium	ND ug/L		0.10	1	06/06/12 13:27	06/15/12 11:54	7440-28-0	
Total Hardness by 2340B	768000 ug/L		1420	20	06/06/12 13:27	06/15/12 11:59		
Vanadium	ND ug/L		0.10	1	06/06/12 13:27	06/15/12 11:54	7440-62-2	
Zinc	3260 ug/L		100	20	06/06/12 13:27	06/15/12 11:59	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	4.1 ug/L		4.0	1	06/06/12 13:24	06/20/12 16:21	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 16:21	7440-36-0	
Arsenic, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 16:21	7440-38-2	
Barium, Dissolved	21.8 ug/L		0.30	1	06/06/12 13:24	06/20/12 16:21	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	06/06/12 13:24	06/20/12 16:21	7440-41-7	
Cadmium, Dissolved	18.7 ug/L		0.080	1	06/06/12 13:24	06/20/12 16:21	7440-43-9	
Calcium, Dissolved	257000 ug/L		400	20	06/06/12 13:24	06/21/12 07:35	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 16:21	7440-47-3	
Cobalt, Dissolved	2.5 ug/L		0.50	1	06/06/12 13:24	06/20/12 16:21	7440-48-4	
Copper, Dissolved	1.8 ug/L		0.50	1	06/06/12 13:24	06/20/12 16:21	7440-50-8	
Iron, Dissolved	ND ug/L		50.0	1	06/06/12 13:24	06/20/12 16:21	7439-89-6	
Lead, Dissolved	ND ug/L		0.10	1	06/06/12 13:24	06/20/12 16:21	7439-92-1	
Magnesium, Dissolved	25800 ug/L		50.0	10	06/06/12 13:24	06/20/12 16:25	7439-95-4	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: DR-6 20120524	Lab ID: 60122217006	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	2080 ug/L		5.0	10	06/06/12 13:24	06/20/12 16:25	7439-96-5	
Molybdenum, Dissolved	10.6 ug/L		0.50	1	06/06/12 13:24	06/20/12 16:21	7439-98-7	
Nickel, Dissolved	5.0 ug/L		0.50	1	06/06/12 13:24	06/20/12 16:21	7440-02-0	
Potassium, Dissolved	2700 ug/L		20.0	1	06/06/12 13:24	06/20/12 16:21	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 16:21	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 16:21	7440-22-4	
Sodium, Dissolved	13500 ug/L		50.0	1	06/06/12 13:24	06/20/12 16:21	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	06/06/12 13:24	06/20/12 16:21	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	06/06/12 13:24	06/20/12 16:21	7440-62-2	
Zinc, Dissolved	3180 ug/L		50.0	10	06/06/12 13:24	06/20/12 16:25	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	20.1J ug/L		50.0	1	06/04/12 18:30	06/06/12 14:06	7429-90-5	
Antimony, Dissolved	0.13J ug/L		1.0	1	06/04/12 18:30	06/06/12 14:06	7440-36-0	
Arsenic, Dissolved	0.14J ug/L		1.0	1	06/04/12 18:30	06/06/12 14:06	7440-38-2	
Barium, Dissolved	19.0 ug/L		1.0	1	06/04/12 18:30	06/06/12 14:06	7440-39-3	
Beryllium, Dissolved	0.094J ug/L		0.50	1	06/04/12 18:30	06/06/12 14:06	7440-41-7	
Cadmium, Dissolved	17.4 ug/L		0.50	1	06/04/12 18:30	06/06/12 14:06	7440-43-9	
Chromium, Dissolved	0.72J ug/L		1.0	1	06/04/12 18:30	06/06/12 14:06	7440-47-3	
Cobalt, Dissolved	2.1 ug/L		1.0	1	06/04/12 18:30	06/06/12 14:06	7440-48-4	
Copper, Dissolved	7.1 ug/L		1.0	1	06/04/12 18:30	06/06/12 14:06	7440-50-8	
Iron, Dissolved	435 ug/L		50.0	1	06/04/12 18:30	06/06/12 14:06	7439-89-6	
Lead, Dissolved	1.9 ug/L		1.0	1	06/04/12 18:30	06/06/12 14:06	7439-92-1	
Manganese, Dissolved	1950 ug/L		1.0	1	06/04/12 18:30	06/06/12 14:06	7439-96-5	M1
Molybdenum, Dissolved	10.1 ug/L		1.0	1	06/04/12 18:30	06/06/12 14:06	7439-98-7	
Nickel, Dissolved	2.1 ug/L		1.0	1	06/04/12 18:30	06/06/12 14:06	7440-02-0	
Selenium, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/06/12 14:06	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	06/04/12 18:30	06/06/12 14:06	7440-22-4	
Thallium, Dissolved	0.18J ug/L		1.0	1	06/04/12 18:30	06/06/12 14:06	7440-28-0	
Vanadium, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/06/12 14:06	7440-62-2	
Zinc, Dissolved	3000 ug/L		10.0	1	06/04/12 18:30	06/06/12 14:06	7440-66-6	M1
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 10:50	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 12:55	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/05/12 13:43	06/06/12 10:29	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	1380 umhos/cm		10.0	1			06/04/12 13:02	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	885 mg/L		6.0	1			06/07/12 00:00	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: DR-6 20120524	Lab ID: 60122217006	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	0.69	PSU	0.010	1		06/07/12 00:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO ₃)	134	mg/L	20.0	1		06/04/12 14:15		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		06/04/12 14:15		
Alkalinity, Total as CaCO ₃	134	mg/L	20.0	1		06/04/12 14:15		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	1090	mg/L	5.0	1		05/31/12 16:48		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND	mg/L	5.0	1		05/31/12 14:58		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		05/31/12 05:43	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	799	mg/L	50.0	50		06/06/12 12:52	14808-79-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		06/01/12 18:17	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		06/08/12 11:37	7440-44-0	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: DR-7 20120524	Lab ID: 60122217007	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	24500 ug/L		100	1	06/05/12 09:50	06/06/12 17:35	7440-70-2	
Magnesium, Dissolved	3310 ug/L		50.0	1	06/05/12 09:50	06/07/12 16:16	7439-95-4	
Potassium, Dissolved	702 ug/L		500	1	06/05/12 09:50	06/06/12 17:35	7440-09-7	
Sodium, Dissolved	1770 ug/L		500	1	06/05/12 09:50	06/06/12 17:35	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	219 ug/L		4.0	1	06/06/12 13:27	06/15/12 12:04	7429-90-5	
Antimony	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 12:04	7440-36-0	
Arsenic	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 12:04	7440-38-2	
Barium	43.9 ug/L		0.30	1	06/06/12 13:27	06/15/12 12:04	7440-39-3	
Beryllium	ND ug/L		0.20	1	06/06/12 13:27	06/15/12 12:04	7440-41-7	
Cadmium	0.38 ug/L		0.080	1	06/06/12 13:27	06/15/12 12:04	7440-43-9	
Calcium	26100 ug/L		400	20	06/06/12 13:27	06/15/12 12:08	7440-70-2	
Chromium	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 12:04	7440-47-3	
Cobalt	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 12:04	7440-48-4	
Copper	1.1 ug/L		0.50	1	06/06/12 13:27	06/15/12 12:04	7440-50-8	
Iron	226 ug/L		50.0	1	06/06/12 13:27	06/15/12 12:04	7439-89-6	
Lead	0.30 ug/L		0.10	1	06/06/12 13:27	06/15/12 12:04	7439-92-1	
Magnesium	3900 ug/L		5.0	1	06/06/12 13:27	06/15/12 12:04	7439-95-4	
Manganese	63.5 ug/L		0.50	1	06/06/12 13:27	06/15/12 12:04	7439-96-5	
Molybdenum	ND ug/L		10.0	20	06/06/12 13:27	06/15/12 12:08	7439-98-7	
Nickel	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 12:04	7440-02-0	
Potassium	713 ug/L		20.0	1	06/06/12 13:27	06/15/12 12:04	7440-09-7	
Selenium	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 12:04	7782-49-2	
Silica	6150 ug/L		1070	20	06/06/12 13:27	06/15/12 12:08	7631-86-9	
Silver	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 12:04	7440-22-4	
Sodium	1890 ug/L		50.0	1	06/06/12 13:27	06/15/12 12:04	7440-23-5	
Thallium	ND ug/L		0.10	1	06/06/12 13:27	06/15/12 12:04	7440-28-0	
Total Hardness by 2340B	81300 ug/L		1420	20	06/06/12 13:27	06/15/12 12:08		
Vanadium	0.54 ug/L		0.10	1	06/06/12 13:27	06/15/12 12:04	7440-62-2	
Zinc	59.9 ug/L		5.0	1	06/06/12 13:27	06/15/12 12:04	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	36.2 ug/L		4.0	1	06/06/12 13:24	06/20/12 16:44	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 16:44	7440-36-0	
Arsenic, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 16:44	7440-38-2	
Barium, Dissolved	38.8 ug/L		0.30	1	06/06/12 13:24	06/20/12 16:44	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	06/06/12 13:24	06/20/12 16:44	7440-41-7	
Cadmium, Dissolved	0.29 ug/L		0.080	1	06/06/12 13:24	06/20/12 16:44	7440-43-9	
Calcium, Dissolved	27900 ug/L		200	10	06/06/12 13:24	06/20/12 16:49	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 16:44	7440-47-3	
Cobalt, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 16:44	7440-48-4	
Copper, Dissolved	1.2 ug/L		0.50	1	06/06/12 13:24	06/20/12 16:44	7440-50-8	
Iron, Dissolved	ND ug/L		50.0	1	06/06/12 13:24	06/20/12 16:44	7439-89-6	
Lead, Dissolved	ND ug/L		0.10	1	06/06/12 13:24	06/20/12 16:44	7439-92-1	
Magnesium, Dissolved	3610 ug/L		5.0	1	06/06/12 13:24	06/20/12 16:44	7439-95-4	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: DR-7 20120524	Lab ID: 60122217007	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	52.4 ug/L		0.50	1	06/06/12 13:24	06/20/12 16:44	7439-96-5	
Molybdenum, Dissolved	0.53 ug/L		0.50	1	06/06/12 13:24	06/20/12 16:44	7439-98-7	
Nickel, Dissolved	0.64 ug/L		0.50	1	06/06/12 13:24	06/20/12 16:44	7440-02-0	
Potassium, Dissolved	657 ug/L		20.0	1	06/06/12 13:24	06/20/12 16:44	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 16:44	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 16:44	7440-22-4	
Sodium, Dissolved	1730 ug/L		50.0	1	06/06/12 13:24	06/20/12 16:44	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	06/06/12 13:24	06/20/12 16:44	7440-28-0	
Vanadium, Dissolved	0.17 ug/L		0.10	1	06/06/12 13:24	06/20/12 16:44	7440-62-2	
Zinc, Dissolved	52.5 ug/L		5.0	1	06/06/12 13:24	06/20/12 16:44	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	72.6 ug/L		50.0	1	06/04/12 18:30	06/06/12 14:26	7429-90-5	
Antimony, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/06/12 14:26	7440-36-0	
Arsenic, Dissolved	0.26J ug/L		1.0	1	06/04/12 18:30	06/06/12 14:26	7440-38-2	
Barium, Dissolved	40.0 ug/L		1.0	1	06/04/12 18:30	06/06/12 14:26	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.50	1	06/04/12 18:30	06/06/12 14:26	7440-41-7	
Cadmium, Dissolved	0.34J ug/L		0.50	1	06/04/12 18:30	06/06/12 14:26	7440-43-9	
Chromium, Dissolved	0.24J ug/L		1.0	1	06/04/12 18:30	06/06/12 14:26	7440-47-3	
Cobalt, Dissolved	0.036J ug/L		1.0	1	06/04/12 18:30	06/06/12 14:26	7440-48-4	
Copper, Dissolved	1.3 ug/L		1.0	1	06/04/12 18:30	06/06/12 14:26	7440-50-8	
Iron, Dissolved	114 ug/L		50.0	1	06/04/12 18:30	06/06/12 14:26	7439-89-6	
Lead, Dissolved	1.3 ug/L		1.0	1	06/04/12 18:30	06/06/12 14:26	7439-92-1	
Manganese, Dissolved	56.5 ug/L		1.0	1	06/04/12 18:30	06/06/12 14:26	7439-96-5	
Molybdenum, Dissolved	0.64J ug/L		1.0	1	06/04/12 18:30	06/06/12 14:26	7439-98-7	
Nickel, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/06/12 14:26	7440-02-0	
Selenium, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/06/12 14:26	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	06/04/12 18:30	06/06/12 14:26	7440-22-4	
Thallium, Dissolved	0.14J ug/L		1.0	1	06/04/12 18:30	06/06/12 14:26	7440-28-0	
Vanadium, Dissolved	0.27J ug/L		1.0	1	06/04/12 18:30	06/06/12 14:26	7440-62-2	
Zinc, Dissolved	57.3 ug/L		10.0	1	06/04/12 18:30	06/06/12 14:26	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 10:52	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 12:57	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/05/12 13:43	06/06/12 10:31	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	186 umhos/cm		10.0	1			06/04/12 13:03	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	119 mg/L		6.0	1			06/07/12 00:00	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING
Pace Project No.: 60122217

Sample: DR-7 20120524	Lab ID: 60122217007	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	0.091 PSU		0.010	1		06/07/12 00:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO ₃)	50.0 mg/L		20.0	1		06/04/12 14:15		
Alkalinity, Carbonate (CaCO ₃)	ND mg/L		20.0	1		06/04/12 14:15		
Alkalinity, Total as CaCO ₃	50.0 mg/L		20.0	1		06/04/12 14:15		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	125 mg/L		5.0	1		05/31/12 16:48		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	5.0 mg/L		5.0	1		05/31/12 14:59		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND mg/L		0.050	1		05/31/12 05:44	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	36.4 mg/L		5.0	5		06/06/12 13:28	14808-79-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND mg/L		0.0050	1		06/01/12 18:17	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	3.8 mg/L		1.0	1		06/08/12 11:50	7440-44-0	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: DR-8 20120524	Lab ID: 60122217008	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	225000 ug/L		100	1	06/05/12 09:50	06/06/12 17:37	7440-70-2	
Magnesium, Dissolved	19700 ug/L		50.0	1	06/05/12 09:50	06/07/12 16:19	7439-95-4	
Potassium, Dissolved	1690 ug/L		500	1	06/05/12 09:50	06/06/12 17:37	7440-09-7	
Sodium, Dissolved	10900 ug/L		500	1	06/05/12 09:50	06/06/12 17:37	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	514 ug/L		4.0	1	06/06/12 13:27	06/15/12 12:13	7429-90-5	
Antimony	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 12:13	7440-36-0	
Arsenic	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 12:13	7440-38-2	
Barium	21.5 ug/L		0.30	1	06/06/12 13:27	06/15/12 12:13	7440-39-3	
Beryllium	0.91 ug/L		0.20	1	06/06/12 13:27	06/15/12 12:13	7440-41-7	
Cadmium	37.0 ug/L		0.080	1	06/06/12 13:27	06/15/12 12:13	7440-43-9	
Calcium	238000 ug/L		400	20	06/06/12 13:27	06/15/12 12:18	7440-70-2	
Chromium	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 12:13	7440-47-3	
Cobalt	3.8 ug/L		0.50	1	06/06/12 13:27	06/15/12 12:13	7440-48-4	
Copper	141 ug/L		0.50	1	06/06/12 13:27	06/15/12 12:13	7440-50-8	
Iron	5740 ug/L		50.0	1	06/06/12 13:27	06/15/12 12:13	7439-89-6	
Lead	4.3 ug/L		0.10	1	06/06/12 13:27	06/15/12 12:13	7439-92-1	
Magnesium	21500 ug/L		5.0	1	06/06/12 13:27	06/15/12 12:13	7439-95-4	
Manganese	2700 ug/L		10.0	20	06/06/12 13:27	06/15/12 12:18	7439-96-5	
Molybdenum	12.4 ug/L		10.0	20	06/06/12 13:27	06/15/12 12:18	7439-98-7	
Nickel	6.4 ug/L		0.50	1	06/06/12 13:27	06/15/12 12:13	7440-02-0	
Potassium	1620 ug/L		20.0	1	06/06/12 13:27	06/15/12 12:13	7440-09-7	
Selenium	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 12:13	7782-49-2	
Silica	17000 ug/L		1070	20	06/06/12 13:27	06/15/12 12:18	7631-86-9	
Silver	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 12:13	7440-22-4	
Sodium	11200 ug/L		50.0	1	06/06/12 13:27	06/15/12 12:13	7440-23-5	
Thallium	ND ug/L		0.10	1	06/06/12 13:27	06/15/12 12:13	7440-28-0	
Total Hardness by 2340B	682000 ug/L		1420	20	06/06/12 13:27	06/15/12 12:18		
Vanadium	ND ug/L		0.10	1	06/06/12 13:27	06/15/12 12:13	7440-62-2	
Zinc	6600 ug/L		100	20	06/06/12 13:27	06/15/12 12:18	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	65.7 ug/L		4.0	1	06/06/12 13:24	06/20/12 16:53	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 16:53	7440-36-0	
Arsenic, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 16:53	7440-38-2	
Barium, Dissolved	21.5 ug/L		0.30	1	06/06/12 13:24	06/20/12 16:53	7440-39-3	
Beryllium, Dissolved	0.62 ug/L		0.20	1	06/06/12 13:24	06/20/12 16:53	7440-41-7	
Cadmium, Dissolved	35.4 ug/L		0.080	1	06/06/12 13:24	06/20/12 16:53	7440-43-9	
Calcium, Dissolved	254000 ug/L		400	20	06/06/12 13:24	06/20/12 16:58	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 16:53	7440-47-3	
Cobalt, Dissolved	3.8 ug/L		0.50	1	06/06/12 13:24	06/20/12 16:53	7440-48-4	
Copper, Dissolved	19.7 ug/L		0.50	1	06/06/12 13:24	06/20/12 16:53	7440-50-8	
Iron, Dissolved	1450 ug/L		50.0	1	06/06/12 13:24	06/20/12 16:53	7439-89-6	
Lead, Dissolved	ND ug/L		0.10	1	06/06/12 13:24	06/20/12 16:53	7439-92-1	
Magnesium, Dissolved	21200 ug/L		5.0	1	06/06/12 13:24	06/20/12 16:53	7439-95-4	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: DR-8 20120524	Lab ID: 60122217008	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	2600 ug/L		10.0	20	06/06/12 13:24	06/20/12 16:58	7439-96-5	
Molybdenum, Dissolved	10.2 ug/L		10.0	20	06/06/12 13:24	06/20/12 16:58	7439-98-7	
Nickel, Dissolved	6.6 ug/L		0.50	1	06/06/12 13:24	06/20/12 16:53	7440-02-0	
Potassium, Dissolved	1640 ug/L		20.0	1	06/06/12 13:24	06/20/12 16:53	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 16:53	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 16:53	7440-22-4	
Sodium, Dissolved	10400 ug/L		50.0	1	06/06/12 13:24	06/20/12 16:53	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	06/06/12 13:24	06/20/12 16:53	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	06/06/12 13:24	06/20/12 16:53	7440-62-2	
Zinc, Dissolved	6300 ug/L		100	20	06/06/12 13:24	06/20/12 16:58	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	479 ug/L		50.0	1	06/04/12 18:30	06/06/12 14:30	7429-90-5	
Antimony, Dissolved	0.20J ug/L		1.0	1	06/04/12 18:30	06/06/12 14:30	7440-36-0	
Arsenic, Dissolved	0.42J ug/L		1.0	1	06/04/12 18:30	06/06/12 14:30	7440-38-2	
Barium, Dissolved	19.2 ug/L		1.0	1	06/04/12 18:30	06/06/12 14:30	7440-39-3	
Beryllium, Dissolved	0.88 ug/L		0.50	1	06/04/12 18:30	06/06/12 14:30	7440-41-7	
Cadmium, Dissolved	35.5 ug/L		0.50	1	06/04/12 18:30	06/06/12 14:30	7440-43-9	
Chromium, Dissolved	0.33J ug/L		1.0	1	06/04/12 18:30	06/06/12 14:30	7440-47-3	
Cobalt, Dissolved	3.5 ug/L		1.0	1	06/04/12 18:30	06/06/12 14:30	7440-48-4	
Copper, Dissolved	135 ug/L		1.0	1	06/04/12 18:30	06/06/12 14:30	7440-50-8	
Iron, Dissolved	5560 ug/L		50.0	1	06/04/12 18:30	06/06/12 14:30	7439-89-6	
Lead, Dissolved	5.0 ug/L		1.0	1	06/04/12 18:30	06/06/12 14:30	7439-92-1	
Manganese, Dissolved	2580 ug/L		5.0	5	06/04/12 18:30	06/06/12 16:12	7439-96-5	
Molybdenum, Dissolved	11.8 ug/L		1.0	1	06/04/12 18:30	06/06/12 14:30	7439-98-7	
Nickel, Dissolved	3.8 ug/L		1.0	1	06/04/12 18:30	06/06/12 14:30	7440-02-0	
Selenium, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/06/12 14:30	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	06/04/12 18:30	06/06/12 14:30	7440-22-4	
Thallium, Dissolved	0.19J ug/L		1.0	1	06/04/12 18:30	06/06/12 14:30	7440-28-0	
Vanadium, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/06/12 14:30	7440-62-2	
Zinc, Dissolved	6370 ug/L		50.0	5	06/04/12 18:30	06/06/12 16:12	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 10:54	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 10:54	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/05/12 13:43	06/06/12 10:33	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	1280 umhos/cm		10.0	1			06/04/12 13:05	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	820 mg/L		6.0	1			06/07/12 00:00	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING
Pace Project No.: 60122217

Sample: DR-8 20120524	Lab ID: 60122217008	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	0.64 PSU		0.010	1		06/07/12 00:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO ₃)	76.0 mg/L		20.0	1		06/04/12 14:15		
Alkalinity, Carbonate (CaCO ₃)	ND mg/L		20.0	1		06/04/12 14:15		
Alkalinity, Total as CaCO ₃	76.0 mg/L		20.0	1		06/04/12 14:15		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	1020 mg/L		5.0	1		05/31/12 16:48		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	16.0 mg/L		5.0	1		05/31/12 14:59		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND mg/L		0.050	1		05/31/12 05:44	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	735 mg/L		50.0	50		06/06/12 13:46	14808-79-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND mg/L		0.0050	1		06/01/12 18:18	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND mg/L		1.0	1		06/08/12 12:04	7440-44-0	

ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: DR-4 SW 20120524	Lab ID: 60122217009	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	23200 ug/L		100	1	06/05/12 09:50	06/06/12 17:39	7440-70-2	
Magnesium, Dissolved	2960 ug/L		50.0	1	06/05/12 09:50	06/07/12 16:23	7439-95-4	
Potassium, Dissolved	587 ug/L		500	1	06/05/12 09:50	06/06/12 17:39	7440-09-7	
Sodium, Dissolved	1160 ug/L		500	1	06/05/12 09:50	06/06/12 17:39	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	188 ug/L		4.0	1	06/06/12 13:27	06/15/12 12:32	7429-90-5	
Antimony	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 12:32	7440-36-0	
Arsenic	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 12:32	7440-38-2	
Barium	46.6 ug/L		0.30	1	06/06/12 13:27	06/15/12 12:32	7440-39-3	
Beryllium	ND ug/L		0.20	1	06/06/12 13:27	06/15/12 12:32	7440-41-7	
Cadmium	0.63 ug/L		0.080	1	06/06/12 13:27	06/15/12 12:32	7440-43-9	
Calcium	25500 ug/L		100	5	06/06/12 13:27	06/15/12 12:36	7440-70-2	
Chromium	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 12:32	7440-47-3	
Cobalt	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 12:32	7440-48-4	
Copper	1.6 ug/L		0.50	1	06/06/12 13:27	06/15/12 12:32	7440-50-8	
Iron	190 ug/L		50.0	1	06/06/12 13:27	06/15/12 12:32	7439-89-6	
Lead	0.60 ug/L		0.10	1	06/06/12 13:27	06/15/12 12:32	7439-92-1	
Magnesium	3410 ug/L		5.0	1	06/06/12 13:27	06/15/12 12:32	7439-95-4	
Manganese	38.3 ug/L		0.50	1	06/06/12 13:27	06/15/12 12:32	7439-96-5	
Molybdenum	0.50 ug/L		0.50	1	06/06/12 13:27	06/15/12 12:32	7439-98-7	
Nickel	0.67 ug/L		0.50	1	06/06/12 13:27	06/15/12 12:32	7440-02-0	
Potassium	543 ug/L		20.0	1	06/06/12 13:27	06/15/12 12:32	7440-09-7	
Selenium	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 12:32	7782-49-2	
Silica	5980 ug/L		268	5	06/06/12 13:27	06/15/12 12:36	7631-86-9	
Silver	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 12:32	7440-22-4	
Sodium	1260 ug/L		50.0	1	06/06/12 13:27	06/15/12 12:32	7440-23-5	
Thallium	ND ug/L		0.10	1	06/06/12 13:27	06/15/12 12:32	7440-28-0	
Total Hardness by 2340B	77700 ug/L		355	5	06/06/12 13:27	06/15/12 12:36		
Vanadium	0.43 ug/L		0.10	1	06/06/12 13:27	06/15/12 12:32	7440-62-2	
Zinc	116 ug/L		5.0	1	06/06/12 13:27	06/15/12 12:32	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	31.5 ug/L		4.0	1	06/06/12 13:24	06/20/12 17:03	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 17:03	7440-36-0	
Arsenic, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 17:03	7440-38-2	
Barium, Dissolved	42.6 ug/L		0.30	1	06/06/12 13:24	06/20/12 17:03	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	06/06/12 13:24	06/20/12 17:03	7440-41-7	
Cadmium, Dissolved	0.59 ug/L		0.080	1	06/06/12 13:24	06/20/12 17:03	7440-43-9	
Calcium, Dissolved	25200 ug/L		400	20	06/06/12 13:24	06/20/12 17:07	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 17:03	7440-47-3	
Cobalt, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 17:03	7440-48-4	
Copper, Dissolved	2.6 ug/L		0.50	1	06/06/12 13:24	06/20/12 17:03	7440-50-8	
Iron, Dissolved	ND ug/L		50.0	1	06/06/12 13:24	06/20/12 17:03	7439-89-6	
Lead, Dissolved	0.14 ug/L		0.10	1	06/06/12 13:24	06/20/12 17:03	7439-92-1	
Magnesium, Dissolved	3190 ug/L		5.0	1	06/06/12 13:24	06/20/12 17:03	7439-95-4	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: DR-4 SW 20120524	Lab ID: 60122217009	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	28.8 ug/L		0.50	1	06/06/12 13:24	06/20/12 17:03	7439-96-5	
Molybdenum, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 17:03	7439-98-7	
Nickel, Dissolved	1.4 ug/L		0.50	1	06/06/12 13:24	06/20/12 17:03	7440-02-0	
Potassium, Dissolved	492 ug/L		20.0	1	06/06/12 13:24	06/20/12 17:03	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 17:03	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 17:03	7440-22-4	
Sodium, Dissolved	1180 ug/L		50.0	1	06/06/12 13:24	06/20/12 17:03	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	06/06/12 13:24	06/20/12 17:03	7440-28-0	
Vanadium, Dissolved	0.16 ug/L		0.10	1	06/06/12 13:24	06/20/12 17:03	7440-62-2	
Zinc, Dissolved	110 ug/L		5.0	1	06/06/12 13:24	06/20/12 17:03	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	63.9 ug/L		50.0	1	06/04/12 18:30	06/06/12 14:34	7429-90-5	
Antimony, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/06/12 14:34	7440-36-0	
Arsenic, Dissolved	0.22J ug/L		1.0	1	06/04/12 18:30	06/06/12 14:34	7440-38-2	
Barium, Dissolved	40.6 ug/L		1.0	1	06/04/12 18:30	06/06/12 14:34	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.50	1	06/04/12 18:30	06/06/12 14:34	7440-41-7	
Cadmium, Dissolved	0.60 ug/L		0.50	1	06/04/12 18:30	06/06/12 14:34	7440-43-9	
Chromium, Dissolved	0.34J ug/L		1.0	1	06/04/12 18:30	06/06/12 14:34	7440-47-3	
Cobalt, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/06/12 14:34	7440-48-4	
Copper, Dissolved	1.7 ug/L		1.0	1	06/04/12 18:30	06/06/12 14:34	7440-50-8	
Iron, Dissolved	109 ug/L		50.0	1	06/04/12 18:30	06/06/12 14:34	7439-89-6	
Lead, Dissolved	1.5 ug/L		1.0	1	06/04/12 18:30	06/06/12 14:34	7439-92-1	
Manganese, Dissolved	32.0 ug/L		1.0	1	06/04/12 18:30	06/06/12 14:34	7439-96-5	
Molybdenum, Dissolved	0.48J ug/L		1.0	1	06/04/12 18:30	06/06/12 14:34	7439-98-7	
Nickel, Dissolved	0.20J ug/L		1.0	1	06/04/12 18:30	06/06/12 14:34	7440-02-0	
Selenium, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/06/12 14:34	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	06/04/12 18:30	06/06/12 14:34	7440-22-4	
Thallium, Dissolved	0.13J ug/L		1.0	1	06/04/12 18:30	06/06/12 14:34	7440-28-0	
Vanadium, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/06/12 14:34	7440-62-2	
Zinc, Dissolved	106 ug/L		10.0	1	06/04/12 18:30	06/06/12 14:34	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 10:57	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 13:03	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/05/12 13:43	06/06/12 10:36	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	163 umhos/cm		10.0	1			06/04/12 13:11	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	104 mg/L		6.0	1			06/07/12 00:00	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: DR-4 SW 20120524	Lab ID: 60122217009	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	0.080 PSU		0.010	1		06/07/12 00:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	66.0 mg/L		20.0	1		06/05/12 13:30		
Alkalinity, Carbonate (CaCO3)	ND mg/L		20.0	1		06/05/12 13:30		
Alkalinity, Total as CaCO3	66.0 mg/L		20.0	1		06/05/12 13:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	109 mg/L		5.0	1		05/31/12 16:48		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND mg/L		5.0	1		05/31/12 14:59		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND mg/L		0.050	1		05/31/12 05:44	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	22.3 mg/L		5.0	5		06/06/12 14:04	14808-79-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND mg/L		0.0050	1		06/01/12 18:19	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	3.5 mg/L		1.0	1		06/08/12 12:17	7440-44-0	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: DR-G 20120524	Lab ID: 60122217010	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	21500 ug/L		100	1	06/05/12 09:50	06/06/12 17:41	7440-70-2	
Magnesium, Dissolved	2680 ug/L		50.0	1	06/05/12 09:50	06/07/12 16:26	7439-95-4	
Potassium, Dissolved	522 ug/L		500	1	06/05/12 09:50	06/06/12 17:41	7440-09-7	
Sodium, Dissolved	1180 ug/L		500	1	06/05/12 09:50	06/06/12 17:41	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	190 ug/L		4.0	1	06/06/12 13:27	06/15/12 12:41	7429-90-5	
Antimony	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 12:41	7440-36-0	
Arsenic	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 12:41	7440-38-2	
Barium	56.4 ug/L		0.30	1	06/06/12 13:27	06/15/12 12:41	7440-39-3	
Beryllium	ND ug/L		0.20	1	06/06/12 13:27	06/15/12 12:41	7440-41-7	
Cadmium	0.14 ug/L		0.080	1	06/06/12 13:27	06/15/12 12:41	7440-43-9	
Calcium	23800 ug/L		100	5	06/06/12 13:27	06/15/12 12:46	7440-70-2	
Chromium	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 12:41	7440-47-3	
Cobalt	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 12:41	7440-48-4	
Copper	1.4 ug/L		0.50	1	06/06/12 13:27	06/15/12 12:41	7440-50-8	
Iron	178 ug/L		50.0	1	06/06/12 13:27	06/15/12 12:41	7439-89-6	
Lead	0.61 ug/L		0.10	1	06/06/12 13:27	06/15/12 12:41	7439-92-1	
Magnesium	3110 ug/L		5.0	1	06/06/12 13:27	06/15/12 12:41	7439-95-4	
Manganese	26.3 ug/L		0.50	1	06/06/12 13:27	06/15/12 12:41	7439-96-5	
Molybdenum	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 12:41	7439-98-7	
Nickel	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 12:41	7440-02-0	
Potassium	517 ug/L		20.0	1	06/06/12 13:27	06/15/12 12:41	7440-09-7	
Selenium	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 12:41	7782-49-2	
Silica	5520 ug/L		268	5	06/06/12 13:27	06/15/12 12:46	7631-86-9	
Silver	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 12:41	7440-22-4	
Sodium	1270 ug/L		50.0	1	06/06/12 13:27	06/15/12 12:41	7440-23-5	
Thallium	ND ug/L		0.10	1	06/06/12 13:27	06/15/12 12:41	7440-28-0	
Total Hardness by 2340B	72200 ug/L		355	5	06/06/12 13:27	06/15/12 12:46		
Vanadium	0.52 ug/L		0.10	1	06/06/12 13:27	06/15/12 12:41	7440-62-2	
Zinc	197 ug/L		5.0	1	06/06/12 13:27	06/15/12 12:41	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	32.9 ug/L		4.0	1	06/06/12 13:24	06/20/12 17:12	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 17:12	7440-36-0	
Arsenic, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 17:12	7440-38-2	
Barium, Dissolved	52.0 ug/L		0.30	1	06/06/12 13:24	06/20/12 17:12	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	06/06/12 13:24	06/20/12 17:12	7440-41-7	
Cadmium, Dissolved	0.14 ug/L		0.080	1	06/06/12 13:24	06/20/12 17:12	7440-43-9	
Calcium, Dissolved	23400 ug/L		400	20	06/06/12 13:24	06/20/12 17:16	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 17:12	7440-47-3	
Cobalt, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 17:12	7440-48-4	
Copper, Dissolved	2.0 ug/L		0.50	1	06/06/12 13:24	06/20/12 17:12	7440-50-8	
Iron, Dissolved	ND ug/L		50.0	1	06/06/12 13:24	06/20/12 17:12	7439-89-6	
Lead, Dissolved	ND ug/L		0.10	1	06/06/12 13:24	06/20/12 17:12	7439-92-1	
Magnesium, Dissolved	2940 ug/L		5.0	1	06/06/12 13:24	06/20/12 17:12	7439-95-4	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: DR-G 20120524	Lab ID: 60122217010	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	18.5 ug/L		0.50	1	06/06/12 13:24	06/20/12 17:12	7439-96-5	
Molybdenum, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 17:12	7439-98-7	
Nickel, Dissolved	1.7 ug/L		0.50	1	06/06/12 13:24	06/20/12 17:12	7440-02-0	
Potassium, Dissolved	484 ug/L		20.0	1	06/06/12 13:24	06/20/12 17:12	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 17:12	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 17:12	7440-22-4	
Sodium, Dissolved	1200 ug/L		50.0	1	06/06/12 13:24	06/20/12 17:12	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	06/06/12 13:24	06/20/12 17:12	7440-28-0	
Vanadium, Dissolved	0.25 ug/L		0.10	1	06/06/12 13:24	06/20/12 17:12	7440-62-2	
Zinc, Dissolved	21.3 ug/L		5.0	1	06/06/12 13:24	06/20/12 17:12	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	62.9 ug/L		50.0	1	06/04/12 18:30	06/06/12 14:39	7429-90-5	
Antimony, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/06/12 14:39	7440-36-0	
Arsenic, Dissolved	0.22J ug/L		1.0	1	06/04/12 18:30	06/06/12 14:39	7440-38-2	
Barium, Dissolved	50.6 ug/L		1.0	1	06/04/12 18:30	06/06/12 14:39	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.50	1	06/04/12 18:30	06/06/12 14:39	7440-41-7	
Cadmium, Dissolved	ND ug/L		0.50	1	06/04/12 18:30	06/06/12 14:39	7440-43-9	
Chromium, Dissolved	1.4 ug/L		1.0	1	06/04/12 18:30	06/06/12 14:39	7440-47-3	
Cobalt, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/06/12 14:39	7440-48-4	
Copper, Dissolved	1.5 ug/L		1.0	1	06/04/12 18:30	06/06/12 14:39	7440-50-8	
Iron, Dissolved	104 ug/L		50.0	1	06/04/12 18:30	06/06/12 14:39	7439-89-6	
Lead, Dissolved	1.1 ug/L		1.0	1	06/04/12 18:30	06/06/12 14:39	7439-92-1	
Manganese, Dissolved	25.8 ug/L		1.0	1	06/04/12 18:30	06/06/12 14:39	7439-96-5	
Molybdenum, Dissolved	0.44J ug/L		1.0	1	06/04/12 18:30	06/06/12 14:39	7439-98-7	
Nickel, Dissolved	0.32J ug/L		1.0	1	06/04/12 18:30	06/06/12 14:39	7440-02-0	
Selenium, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/06/12 14:39	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	06/04/12 18:30	06/06/12 14:39	7440-22-4	
Thallium, Dissolved	0.13J ug/L		1.0	1	06/04/12 18:30	06/06/12 14:39	7440-28-0	J
Vanadium, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/06/12 14:39	7440-62-2	
Zinc, Dissolved	29.4 ug/L		10.0	1	06/04/12 18:30	06/06/12 14:39	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 10:59	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 13:06	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/05/12 13:43	06/06/12 10:38	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	152 umhos/cm		10.0	1			06/04/12 13:13	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	97.2 mg/L		6.0	1			06/07/12 00:00	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: DR-G 20120524	Lab ID: 60122217010	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	0.075 PSU		0.010	1		06/07/12 00:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO ₃)	58.0 mg/L		20.0	1		06/05/12 13:30		
Alkalinity, Carbonate (CaCO ₃)	ND mg/L		20.0	1		06/05/12 13:30		
Alkalinity, Total as CaCO ₃	58.0 mg/L		20.0	1		06/05/12 13:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	82.0 mg/L		5.0	1		05/31/12 16:49		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	7.0 mg/L		5.0	1		05/31/12 14:59		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND mg/L		0.050	1		05/31/12 05:45	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	18.1 mg/L		2.0	2		06/06/12 14:23	14808-79-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	0.015 mg/L		0.0050	1		06/01/12 18:22	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	3.6 mg/L		1.0	1		06/08/12 12:31	7440-44-0	

ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: FB 20120524	Lab ID: 60122217011	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	ND ug/L		100	1	06/05/12 09:50	06/06/12 16:03	7440-70-2	
Magnesium, Dissolved	ND ug/L		50.0	1	06/05/12 09:50	06/06/12 16:03	7439-95-4	
Potassium, Dissolved	ND ug/L		500	1	06/05/12 09:50	06/06/12 16:03	7440-09-7	
Sodium, Dissolved	ND ug/L		500	1	06/05/12 09:50	06/06/12 16:03	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	4.7 ug/L		4.0	1	06/06/12 13:27	06/15/12 12:50	7429-90-5	
Antimony	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 12:50	7440-36-0	
Arsenic	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 12:50	7440-38-2	
Barium	ND ug/L		0.30	1	06/06/12 13:27	06/15/12 12:50	7440-39-3	
Beryllium	ND ug/L		0.20	1	06/06/12 13:27	06/15/12 12:50	7440-41-7	
Cadmium	ND ug/L		0.080	1	06/06/12 13:27	06/15/12 12:50	7440-43-9	
Calcium	27.9 ug/L		20.0	1	06/06/12 13:27	06/15/12 12:50	7440-70-2	
Chromium	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 12:50	7440-47-3	
Cobalt	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 12:50	7440-48-4	
Copper	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 12:50	7440-50-8	
Iron	ND ug/L		50.0	1	06/06/12 13:27	06/15/12 12:50	7439-89-6	
Lead	ND ug/L		0.10	1	06/06/12 13:27	06/15/12 12:50	7439-92-1	
Magnesium	ND ug/L		5.0	1	06/06/12 13:27	06/15/12 12:50	7439-95-4	
Manganese	0.67 ug/L		0.50	1	06/06/12 13:27	06/15/12 12:50	7439-96-5	
Molybdenum	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 12:50	7439-98-7	
Nickel	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 12:50	7440-02-0	
Potassium	ND ug/L		20.0	1	06/06/12 13:27	06/15/12 12:50	7440-09-7	
Selenium	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 12:50	7782-49-2	
Silica	ND ug/L		53.5	1	06/06/12 13:27	06/15/12 12:50	7631-86-9	
Silver	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 12:50	7440-22-4	
Sodium	497 ug/L		50.0	1	06/06/12 13:27	06/15/12 12:50	7440-23-5	
Thallium	ND ug/L		0.10	1	06/06/12 13:27	06/15/12 12:50	7440-28-0	
Total Hardness by 2340B	86.3 ug/L		71.0	1	06/06/12 13:27	06/15/12 12:50		
Vanadium	ND ug/L		0.10	1	06/06/12 13:27	06/15/12 12:50	7440-62-2	
Zinc	ND ug/L		5.0	1	06/06/12 13:27	06/15/12 12:50	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	4.6 ug/L		4.0	1	06/06/12 13:24	06/20/12 18:35	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 18:35	7440-36-0	
Arsenic, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 18:35	7440-38-2	
Barium, Dissolved	ND ug/L		0.30	1	06/06/12 13:24	06/20/12 18:35	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	06/06/12 13:24	06/20/12 18:35	7440-41-7	
Cadmium, Dissolved	ND ug/L		0.080	1	06/06/12 13:24	06/20/12 18:35	7440-43-9	
Calcium, Dissolved	26.7 ug/L		20.0	1	06/06/12 13:24	06/20/12 18:35	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 18:35	7440-47-3	
Cobalt, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 18:35	7440-48-4	
Copper, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 18:35	7440-50-8	
Iron, Dissolved	ND ug/L		50.0	1	06/06/12 13:24	06/20/12 18:35	7439-89-6	
Lead, Dissolved	ND ug/L		0.10	1	06/06/12 13:24	06/20/12 18:35	7439-92-1	
Magnesium, Dissolved	ND ug/L		5.0	1	06/06/12 13:24	06/20/12 18:35	7439-95-4	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: FB 20120524	Lab ID: 60122217011	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 18:35	7439-96-5	
Molybdenum, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 18:35	7439-98-7	
Nickel, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 18:35	7440-02-0	
Potassium, Dissolved	ND ug/L		20.0	1	06/06/12 13:24	06/20/12 18:35	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 18:35	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 18:35	7440-22-4	
Sodium, Dissolved	445 ug/L		50.0	1	06/06/12 13:24	06/20/12 18:35	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	06/06/12 13:24	06/20/12 18:35	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	06/06/12 13:24	06/20/12 18:35	7440-62-2	
Zinc, Dissolved	ND ug/L		5.0	1	06/06/12 13:24	06/20/12 18:35	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	ND ug/L		50.0	1	06/04/12 18:30	06/06/12 14:43	7429-90-5	
Antimony, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/06/12 14:43	7440-36-0	
Arsenic, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/06/12 14:43	7440-38-2	
Barium, Dissolved	0.20J ug/L		1.0	1	06/04/12 18:30	06/06/12 14:43	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.50	1	06/04/12 18:30	06/06/12 14:43	7440-41-7	
Cadmium, Dissolved	ND ug/L		0.50	1	06/04/12 18:30	06/06/12 14:43	7440-43-9	
Chromium, Dissolved	0.87J ug/L		1.0	1	06/04/12 18:30	06/06/12 14:43	7440-47-3	
Cobalt, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/06/12 14:43	7440-48-4	
Copper, Dissolved	0.56J ug/L		1.0	1	06/04/12 18:30	06/06/12 14:43	7440-50-8	
Iron, Dissolved	14.4J ug/L		50.0	1	06/04/12 18:30	06/06/12 14:43	7439-89-6	
Lead, Dissolved	0.72J ug/L		1.0	1	06/04/12 18:30	06/06/12 14:43	7439-92-1	
Manganese, Dissolved	0.52J ug/L		1.0	1	06/04/12 18:30	06/06/12 14:43	7439-96-5	
Molybdenum, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/06/12 14:43	7439-98-7	
Nickel, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/06/12 14:43	7440-02-0	
Selenium, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/06/12 14:43	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	06/04/12 18:30	06/06/12 14:43	7440-22-4	
Thallium, Dissolved	0.12J ug/L		1.0	1	06/04/12 18:30	06/06/12 14:43	7440-28-0	
Vanadium, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/06/12 14:43	7440-62-2	
Zinc, Dissolved	ND ug/L		10.0	1	06/04/12 18:30	06/06/12 14:43	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 11:01	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 13:08	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/05/12 13:43	06/06/12 10:40	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	ND umhos/cm		10.0	1			06/04/12 13:14	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	ND mg/L		6.0	1			06/07/12 00:00	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: FB 20120524	Lab ID: 60122217011	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	0.012 PSU		0.010	1		06/07/12 00:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	ND mg/L		20.0	1		06/05/12 13:30		
Alkalinity, Carbonate (CaCO3)	ND mg/L		20.0	1		06/05/12 13:30		
Alkalinity, Total as CaCO3	ND mg/L		20.0	1		06/05/12 13:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	9.0 mg/L		5.0	1		05/31/12 16:50		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND mg/L		5.0	1		05/31/12 14:59		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND mg/L		0.050	1		05/31/12 05:45	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	ND mg/L		1.0	1		06/05/12 05:47	14808-79-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND mg/L		0.0050	1		06/01/12 18:27	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND mg/L		1.0	1		06/08/12 12:44	7440-44-0	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: GW-1 20120523	Lab ID: 60122217012	Collected: 05/23/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	32400 ug/L		100	1	06/05/12 09:50	06/06/12 16:11	7440-70-2	
Magnesium, Dissolved	4200 ug/L		50.0	1	06/05/12 09:50	06/06/12 16:11	7439-95-4	
Potassium, Dissolved	784 ug/L		500	1	06/05/12 09:50	06/06/12 16:11	7440-09-7	
Sodium, Dissolved	1770 ug/L		500	1	06/05/12 09:50	06/06/12 16:11	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	2750 ug/L		4.0	1	06/06/12 13:27	06/15/12 12:55	7429-90-5	
Antimony	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 12:55	7440-36-0	
Arsenic	4.3 ug/L		0.50	1	06/06/12 13:27	06/15/12 12:55	7440-38-2	
Barium	110 ug/L		0.30	1	06/06/12 13:27	06/15/12 12:55	7440-39-3	
Beryllium	0.22 ug/L		0.20	1	06/06/12 13:27	06/15/12 12:55	7440-41-7	
Cadmium	0.58 ug/L		0.080	1	06/06/12 13:27	06/15/12 12:55	7440-43-9	
Calcium	37700 ug/L		100	5	06/06/12 13:27	06/15/12 13:04	7440-70-2	
Chromium	3.0 ug/L		0.50	1	06/06/12 13:27	06/15/12 12:55	7440-47-3	
Cobalt	3.3 ug/L		0.50	1	06/06/12 13:27	06/15/12 12:55	7440-48-4	
Copper	19.8 ug/L		0.50	1	06/06/12 13:27	06/15/12 12:55	7440-50-8	
Iron	4950 ug/L		50.0	1	06/06/12 13:27	06/15/12 12:55	7439-89-6	
Lead	19.4 ug/L		0.10	1	06/06/12 13:27	06/15/12 12:55	7439-92-1	
Magnesium	5330 ug/L		5.0	1	06/06/12 13:27	06/15/12 12:55	7439-95-4	
Manganese	630 ug/L		2.5	5	06/06/12 13:27	06/15/12 13:04	7439-96-5	
Molybdenum	2.0 ug/L		0.50	1	06/06/12 13:27	06/15/12 12:55	7439-98-7	
Nickel	5.6 ug/L		0.50	1	06/06/12 13:27	06/15/12 12:55	7440-02-0	
Potassium	1480 ug/L		20.0	1	06/06/12 13:27	06/15/12 12:55	7440-09-7	
Selenium	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 12:55	7782-49-2	
Silica	16300 ug/L		268	5	06/06/12 13:27	06/15/12 13:04	7631-86-9	
Silver	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 12:55	7440-22-4	
Sodium	2060 ug/L		50.0	1	06/06/12 13:27	06/15/12 12:55	7440-23-5	
Thallium	ND ug/L		0.10	1	06/06/12 13:27	06/15/12 12:55	7440-28-0	
Total Hardness by 2340B	116000 ug/L		355	5	06/06/12 13:27	06/15/12 13:04		
Vanadium	6.3 ug/L		0.10	1	06/06/12 13:27	06/15/12 12:55	7440-62-2	
Zinc	58.4 ug/L		5.0	1	06/06/12 13:27	06/15/12 12:55	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	ND ug/L		4.0	1	06/06/12 13:24	06/20/12 17:35	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 17:35	7440-36-0	
Arsenic, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 17:35	7440-38-2	
Barium, Dissolved	41.7 ug/L		0.30	1	06/06/12 13:24	06/20/12 17:35	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	06/06/12 13:24	06/20/12 17:35	7440-41-7	
Cadmium, Dissolved	ND ug/L		0.080	1	06/06/12 13:24	06/20/12 17:35	7440-43-9	
Calcium, Dissolved	36400 ug/L		400	20	06/06/12 13:24	06/20/12 17:40	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 17:35	7440-47-3	
Cobalt, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 17:35	7440-48-4	
Copper, Dissolved	1.7 ug/L		0.50	1	06/06/12 13:24	06/20/12 17:35	7440-50-8	
Iron, Dissolved	ND ug/L		50.0	1	06/06/12 13:24	06/20/12 17:35	7439-89-6	
Lead, Dissolved	ND ug/L		0.10	1	06/06/12 13:24	06/20/12 17:35	7439-92-1	
Magnesium, Dissolved	3940 ug/L		5.0	1	06/06/12 13:24	06/20/12 17:35	7439-95-4	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: GW-1 20120523	Lab ID: 60122217012	Collected: 05/23/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	0.72 ug/L		0.50	1	06/06/12 13:24	06/20/12 17:35	7439-96-5	
Molybdenum, Dissolved	1.2 ug/L		0.50	1	06/06/12 13:24	06/20/12 17:35	7439-98-7	
Nickel, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 17:35	7440-02-0	
Potassium, Dissolved	651 ug/L		20.0	1	06/06/12 13:24	06/20/12 17:35	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 17:35	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 17:35	7440-22-4	
Sodium, Dissolved	1740 ug/L		50.0	1	06/06/12 13:24	06/20/12 17:35	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	06/06/12 13:24	06/20/12 17:35	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	06/06/12 13:24	06/20/12 17:35	7440-62-2	
Zinc, Dissolved	ND ug/L		5.0	1	06/06/12 13:24	06/20/12 17:35	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	720 ug/L		50.0	1	06/04/12 18:30	06/06/12 14:47	7429-90-5	
Antimony, Dissolved	0.12J ug/L		1.0	1	06/04/12 18:30	06/06/12 14:47	7440-36-0	
Arsenic, Dissolved	1.2 ug/L		1.0	1	06/04/12 18:30	06/06/12 14:47	7440-38-2	
Barium, Dissolved	90.0 ug/L		1.0	1	06/04/12 18:30	06/06/12 14:47	7440-39-3	
Beryllium, Dissolved	0.16J ug/L		0.50	1	06/04/12 18:30	06/06/12 14:47	7440-41-7	
Cadmium, Dissolved	0.52 ug/L		0.50	1	06/04/12 18:30	06/06/12 14:47	7440-43-9	
Chromium, Dissolved	1.0 ug/L		1.0	1	06/04/12 18:30	06/06/12 14:47	7440-47-3	
Cobalt, Dissolved	2.3 ug/L		1.0	1	06/04/12 18:30	06/06/12 14:47	7440-48-4	
Copper, Dissolved	13.4 ug/L		1.0	1	06/04/12 18:30	06/06/12 14:47	7440-50-8	
Iron, Dissolved	1640 ug/L		50.0	1	06/04/12 18:30	06/06/12 14:47	7439-89-6	
Lead, Dissolved	15.2 ug/L		1.0	1	06/04/12 18:30	06/06/12 14:47	7439-92-1	
Manganese, Dissolved	508 ug/L		1.0	1	06/04/12 18:30	06/06/12 14:47	7439-96-5	
Molybdenum, Dissolved	0.32J ug/L		1.0	1	06/04/12 18:30	06/06/12 14:47	7439-98-7	
Nickel, Dissolved	3.4 ug/L		1.0	1	06/04/12 18:30	06/06/12 14:47	7440-02-0	
Selenium, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/06/12 14:47	7782-49-2	
Silver, Dissolved	0.27J ug/L		0.50	1	06/04/12 18:30	06/06/12 14:47	7440-22-4	
Thallium, Dissolved	0.13J ug/L		1.0	1	06/04/12 18:30	06/06/12 14:47	7440-28-0	
Vanadium, Dissolved	2.2 ug/L		1.0	1	06/04/12 18:30	06/06/12 14:47	7440-62-2	
Zinc, Dissolved	40.4 ug/L		10.0	1	06/04/12 18:30	06/06/12 14:47	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	0.30 ug/L		0.20	1	06/01/12 13:30	06/04/12 11:03	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 13:11	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/05/12 13:43	06/06/12 10:42	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	234 umhos/cm		10.0	1			06/04/12 13:15	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	150 mg/L		6.0	1			06/07/12 00:00	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: GW-1 20120523	Lab ID: 60122217012	Collected: 05/23/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	0.11 PSU		0.010	1		06/07/12 00:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO ₃)	90.0 mg/L		20.0	1		06/04/12 10:15		
Alkalinity, Carbonate (CaCO ₃)	ND mg/L		20.0	1		06/04/12 10:15		
Alkalinity, Total as CaCO ₃	90.0 mg/L		20.0	1		06/04/12 10:15		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	119 mg/L		5.0	1		05/31/12 16:53		H1
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	72.0 mg/L		5.0	1		05/31/12 10:36		H1
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND mg/L		0.050	1		05/31/12 07:35	18496-25-8	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	27.3 mg/L		5.0	5		06/06/12 15:17	14808-79-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND mg/L		0.0050	1		06/01/12 17:57	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	2.1 mg/L		1.0	1		06/08/12 12:57	7440-44-0	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: GW-3 20120523	Lab ID: 60122217013	Collected: 05/23/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	128000 ug/L		100	1	06/05/12 09:50	06/06/12 16:24	7440-70-2	
Magnesium, Dissolved	18600 ug/L		50.0	1	06/05/12 09:50	06/06/12 16:24	7439-95-4	
Potassium, Dissolved	2930 ug/L		500	1	06/05/12 09:50	06/06/12 16:24	7440-09-7	
Sodium, Dissolved	3070 ug/L		500	1	06/05/12 09:50	06/06/12 16:24	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	6310 ug/L		4.0	1	06/06/12 13:27	06/15/12 13:09	7429-90-5	
Antimony	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 13:09	7440-36-0	
Arsenic	9.8 ug/L		0.50	1	06/06/12 13:27	06/15/12 13:09	7440-38-2	
Barium	125 ug/L		0.30	1	06/06/12 13:27	06/15/12 13:09	7440-39-3	
Beryllium	0.33 ug/L		0.20	1	06/06/12 13:27	06/15/12 13:09	7440-41-7	
Cadmium	1.5 ug/L		0.080	1	06/06/12 13:27	06/15/12 13:09	7440-43-9	
Calcium	144000 ug/L		400	20	06/06/12 13:27	06/15/12 13:14	7440-70-2	
Chromium	8.5 ug/L		0.50	1	06/06/12 13:27	06/15/12 13:09	7440-47-3	
Cobalt	4.4 ug/L		0.50	1	06/06/12 13:27	06/15/12 13:09	7440-48-4	
Copper	39.5 ug/L		0.50	1	06/06/12 13:27	06/15/12 13:09	7440-50-8	
Iron	10700 ug/L		50.0	1	06/06/12 13:27	06/15/12 13:09	7439-89-6	
Lead	89.6 ug/L		0.10	1	06/06/12 13:27	06/15/12 13:09	7439-92-1	
Magnesium	22000 ug/L		5.0	1	06/06/12 13:27	06/15/12 13:09	7439-95-4	
Manganese	1000 ug/L		10.0	20	06/06/12 13:27	06/15/12 13:14	7439-96-5	
Molybdenum	1.6 ug/L		0.50	1	06/06/12 13:27	06/15/12 13:09	7439-98-7	
Nickel	6.9 ug/L		0.50	1	06/06/12 13:27	06/15/12 13:09	7440-02-0	
Potassium	3720 ug/L		20.0	1	06/06/12 13:27	06/15/12 13:09	7440-09-7	
Selenium	4.0 ug/L		0.50	1	06/06/12 13:27	06/15/12 13:09	7782-49-2	
Silica	32400 ug/L		1070	20	06/06/12 13:27	06/15/12 13:14	7631-86-9	
Silver	0.82 ug/L		0.50	1	06/06/12 13:27	06/15/12 13:09	7440-22-4	
Sodium	3650 ug/L		50.0	1	06/06/12 13:27	06/15/12 13:09	7440-23-5	
Thallium	0.16 ug/L		0.10	1	06/06/12 13:27	06/15/12 13:09	7440-28-0	
Total Hardness by 2340B	451000 ug/L		1420	20	06/06/12 13:27	06/15/12 13:14		
Vanadium	13.4 ug/L		0.10	1	06/06/12 13:27	06/15/12 13:09	7440-62-2	
Zinc	292 ug/L		5.0	1	06/06/12 13:27	06/15/12 13:09	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	7.3 ug/L		4.0	1	06/06/12 13:24	06/20/12 17:44	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 17:44	7440-36-0	
Arsenic, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 17:44	7440-38-2	
Barium, Dissolved	14.0 ug/L		0.30	1	06/06/12 13:24	06/20/12 17:44	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	06/06/12 13:24	06/20/12 17:44	7440-41-7	
Cadmium, Dissolved	0.30 ug/L		0.080	1	06/06/12 13:24	06/20/12 17:44	7440-43-9	
Calcium, Dissolved	149000 ug/L		400	20	06/06/12 13:24	06/20/12 17:49	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 17:44	7440-47-3	
Cobalt, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 17:44	7440-48-4	
Copper, Dissolved	0.88 ug/L		0.50	1	06/06/12 13:24	06/20/12 17:44	7440-50-8	
Iron, Dissolved	ND ug/L		50.0	1	06/06/12 13:24	06/20/12 17:44	7439-89-6	
Lead, Dissolved	ND ug/L		0.10	1	06/06/12 13:24	06/20/12 17:44	7439-92-1	
Magnesium, Dissolved	17600 ug/L		5.0	1	06/06/12 13:24	06/20/12 17:44	7439-95-4	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: GW-3 20120523	Lab ID: 60122217013	Collected: 05/23/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	75.2 ug/L		0.50	1	06/06/12 13:24	06/20/12 17:44	7439-96-5	
Molybdenum, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 17:44	7439-98-7	
Nickel, Dissolved	0.67 ug/L		0.50	1	06/06/12 13:24	06/20/12 17:44	7440-02-0	
Potassium, Dissolved	2580 ug/L		20.0	1	06/06/12 13:24	06/20/12 17:44	7440-09-7	
Selenium, Dissolved	2.6 ug/L		0.50	1	06/06/12 13:24	06/20/12 17:44	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 17:44	7440-22-4	
Sodium, Dissolved	3040 ug/L		50.0	1	06/06/12 13:24	06/20/12 17:44	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	06/06/12 13:24	06/20/12 17:44	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	06/06/12 13:24	06/20/12 17:44	7440-62-2	
Zinc, Dissolved	38.6 ug/L		5.0	1	06/06/12 13:24	06/20/12 17:44	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	2760 ug/L		50.0	1	06/04/12 18:30	06/06/12 15:03	7429-90-5	
Antimony, Dissolved	0.24J ug/L		1.0	1	06/04/12 18:30	06/06/12 15:03	7440-36-0	
Arsenic, Dissolved	5.0 ug/L		1.0	1	06/04/12 18:30	06/06/12 15:03	7440-38-2	
Barium, Dissolved	67.9 ug/L		1.0	1	06/04/12 18:30	06/06/12 15:03	7440-39-3	
Beryllium, Dissolved	0.28J ug/L		0.50	1	06/04/12 18:30	06/06/12 15:03	7440-41-7	
Cadmium, Dissolved	2.4 ug/L		0.50	1	06/04/12 18:30	06/06/12 15:03	7440-43-9	
Chromium, Dissolved	4.9 ug/L		1.0	1	06/04/12 18:30	06/06/12 15:03	7440-47-3	
Cobalt, Dissolved	4.3 ug/L		1.0	1	06/04/12 18:30	06/06/12 15:03	7440-48-4	
Copper, Dissolved	45.2 ug/L		1.0	1	06/04/12 18:30	06/06/12 15:03	7440-50-8	
Iron, Dissolved	6070 ug/L		50.0	1	06/04/12 18:30	06/06/12 15:03	7439-89-6	
Lead, Dissolved	65.8 ug/L		1.0	1	06/04/12 18:30	06/06/12 15:03	7439-92-1	
Manganese, Dissolved	1270 ug/L		1.0	1	06/04/12 18:30	06/06/12 15:03	7439-96-5	
Molybdenum, Dissolved	0.23J ug/L		1.0	1	06/04/12 18:30	06/06/12 15:03	7439-98-7	
Nickel, Dissolved	4.7 ug/L		1.0	1	06/04/12 18:30	06/06/12 15:03	7440-02-0	
Selenium, Dissolved	2.5 ug/L		1.0	1	06/04/12 18:30	06/06/12 15:03	7782-49-2	
Silver, Dissolved	0.92 ug/L		0.50	1	06/04/12 18:30	06/06/12 15:03	7440-22-4	
Thallium, Dissolved	0.17J ug/L		1.0	1	06/04/12 18:30	06/06/12 15:03	7440-28-0	
Vanadium, Dissolved	5.4 ug/L		1.0	1	06/04/12 18:30	06/06/12 15:03	7440-62-2	
Zinc, Dissolved	360 ug/L		10.0	1	06/04/12 18:30	06/06/12 15:03	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 11:05	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 13:14	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/05/12 13:43	06/06/12 10:45	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	834 umhos/cm		10.0	1			06/04/12 13:17	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	534 mg/L		6.0	1			06/07/12 00:00	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: GW-3 20120523	Lab ID: 60122217013	Collected: 05/23/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	0.41 PSU		0.010	1		06/07/12 00:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO ₃)	188 mg/L		20.0	1		06/04/12 10:15		
Alkalinity, Carbonate (CaCO ₃)	ND mg/L		20.0	1		06/04/12 10:15		
Alkalinity, Total as CaCO ₃	188 mg/L		20.0	1		06/04/12 10:15		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	539 mg/L		5.0	1		05/31/12 16:53		H1
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	298 mg/L		5.0	1		05/31/12 10:37		H1
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND mg/L		0.050	1		05/31/12 07:36	18496-25-8	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	250 mg/L		20.0	20		06/05/12 06:24	14808-79-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND mg/L		0.0050	1		06/01/12 18:01	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	1.1 mg/L		1.0	1		06/08/12 13:11	7440-44-0	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: GW-4 20120524	Lab ID: 60122217014	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	149000 ug/L		100	1	06/05/12 09:50	06/06/12 16:26	7440-70-2	
Magnesium, Dissolved	19700 ug/L		50.0	1	06/05/12 09:50	06/06/12 16:26	7439-95-4	
Potassium, Dissolved	1700 ug/L		500	1	06/05/12 09:50	06/06/12 16:26	7440-09-7	
Sodium, Dissolved	4530 ug/L		500	1	06/05/12 09:50	06/06/12 16:26	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	4030 ug/L		4.0	1	06/06/12 13:27	06/15/12 13:28	7429-90-5	
Antimony	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 13:28	7440-36-0	
Arsenic	3.7 ug/L		0.50	1	06/06/12 13:27	06/15/12 13:28	7440-38-2	
Barium	84.6 ug/L		0.30	1	06/06/12 13:27	06/15/12 13:28	7440-39-3	
Beryllium	ND ug/L		0.20	1	06/06/12 13:27	06/15/12 13:28	7440-41-7	
Cadmium	1.2 ug/L		0.080	1	06/06/12 13:27	06/15/12 13:28	7440-43-9	
Calcium	166000 ug/L		400	20	06/06/12 13:27	06/15/12 13:32	7440-70-2	
Chromium	5.7 ug/L		0.50	1	06/06/12 13:27	06/15/12 13:28	7440-47-3	
Cobalt	2.4 ug/L		0.50	1	06/06/12 13:27	06/15/12 13:28	7440-48-4	
Copper	17.1 ug/L		0.50	1	06/06/12 13:27	06/15/12 13:28	7440-50-8	
Iron	7980 ug/L		50.0	1	06/06/12 13:27	06/15/12 13:28	7439-89-6	
Lead	34.8 ug/L		0.10	1	06/06/12 13:27	06/15/12 13:28	7439-92-1	
Magnesium	22100 ug/L		5.0	1	06/06/12 13:27	06/15/12 13:28	7439-95-4	
Manganese	632 ug/L		10.0	20	06/06/12 13:27	06/15/12 13:32	7439-96-5	
Molybdenum	11.3 ug/L		0.50	1	06/06/12 13:27	06/15/12 13:28	7439-98-7	
Nickel	4.0 ug/L		0.50	1	06/06/12 13:27	06/15/12 13:28	7440-02-0	
Potassium	2540 ug/L		20.0	1	06/06/12 13:27	06/15/12 13:28	7440-09-7	
Selenium	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 13:28	7782-49-2	
Silica	24500 ug/L		1070	20	06/06/12 13:27	06/15/12 13:32	7631-86-9	
Silver	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 13:28	7440-22-4	
Sodium	5100 ug/L		50.0	1	06/06/12 13:27	06/15/12 13:28	7440-23-5	
Thallium	0.13 ug/L		0.10	1	06/06/12 13:27	06/15/12 13:28	7440-28-0	
Total Hardness by 2340B	506000 ug/L		1420	20	06/06/12 13:27	06/15/12 13:32		
Vanadium	8.6 ug/L		0.10	1	06/06/12 13:27	06/15/12 13:28	7440-62-2	
Zinc	159 ug/L		5.0	1	06/06/12 13:27	06/15/12 13:28	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	6.7 ug/L		4.0	1	06/06/12 13:24	06/20/12 17:53	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 17:53	7440-36-0	
Arsenic, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 17:53	7440-38-2	
Barium, Dissolved	23.5 ug/L		0.30	1	06/06/12 13:24	06/20/12 17:53	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	06/06/12 13:24	06/20/12 17:53	7440-41-7	
Cadmium, Dissolved	0.12 ug/L		0.080	1	06/06/12 13:24	06/20/12 17:53	7440-43-9	
Calcium, Dissolved	162000 ug/L		400	20	06/06/12 13:24	06/20/12 17:58	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 17:53	7440-47-3	
Cobalt, Dissolved	0.84 ug/L		0.50	1	06/06/12 13:24	06/20/12 17:53	7440-48-4	
Copper, Dissolved	0.61 ug/L		0.50	1	06/06/12 13:24	06/20/12 17:53	7440-50-8	
Iron, Dissolved	1060 ug/L		50.0	1	06/06/12 13:24	06/20/12 17:53	7439-89-6	
Lead, Dissolved	ND ug/L		0.10	1	06/06/12 13:24	06/20/12 17:53	7439-92-1	
Magnesium, Dissolved	19200 ug/L		5.0	1	06/06/12 13:24	06/20/12 17:53	7439-95-4	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: GW-4 20120524	Lab ID: 60122217014	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	505	ug/L	10.0	20	06/06/12 13:24	06/20/12 17:58	7439-96-5	
Molybdenum, Dissolved	10.2	ug/L	0.50	1	06/06/12 13:24	06/20/12 17:53	7439-98-7	
Nickel, Dissolved	3.4	ug/L	0.50	1	06/06/12 13:24	06/20/12 17:53	7440-02-0	
Potassium, Dissolved	1510	ug/L	20.0	1	06/06/12 13:24	06/20/12 17:53	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	06/06/12 13:24	06/20/12 17:53	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	06/06/12 13:24	06/20/12 17:53	7440-22-4	
Sodium, Dissolved	4430	ug/L	50.0	1	06/06/12 13:24	06/20/12 17:53	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	06/06/12 13:24	06/20/12 17:53	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	06/06/12 13:24	06/20/12 17:53	7440-62-2	
Zinc, Dissolved	32.3	ug/L	5.0	1	06/06/12 13:24	06/20/12 17:53	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	1230	ug/L	50.0	1	06/04/12 18:30	06/06/12 15:15	7429-90-5	
Antimony, Dissolved	ND	ug/L	1.0	1	06/04/12 18:30	06/06/12 15:15	7440-36-0	
Arsenic, Dissolved	2.0	ug/L	1.0	1	06/04/12 18:30	06/06/12 15:15	7440-38-2	
Barium, Dissolved	44.8	ug/L	1.0	1	06/04/12 18:30	06/06/12 15:15	7440-39-3	
Beryllium, Dissolved	0.14J	ug/L	0.50	1	06/04/12 18:30	06/06/12 15:15	7440-41-7	
Cadmium, Dissolved	0.95	ug/L	0.50	1	06/04/12 18:30	06/06/12 15:15	7440-43-9	
Chromium, Dissolved	2.8	ug/L	1.0	1	06/04/12 18:30	06/06/12 15:15	7440-47-3	
Cobalt, Dissolved	1.5	ug/L	1.0	1	06/04/12 18:30	06/06/12 15:15	7440-48-4	
Copper, Dissolved	11.3	ug/L	1.0	1	06/04/12 18:30	06/06/12 15:15	7440-50-8	
Iron, Dissolved	4630	ug/L	50.0	1	06/04/12 18:30	06/06/12 15:15	7439-89-6	
Lead, Dissolved	20.6	ug/L	1.0	1	06/04/12 18:30	06/06/12 15:15	7439-92-1	
Manganese, Dissolved	562	ug/L	1.0	1	06/04/12 18:30	06/06/12 15:15	7439-96-5	
Molybdenum, Dissolved	6.7	ug/L	1.0	1	06/04/12 18:30	06/06/12 15:15	7439-98-7	
Nickel, Dissolved	0.79J	ug/L	1.0	1	06/04/12 18:30	06/06/12 15:15	7440-02-0	
Selenium, Dissolved	ND	ug/L	1.0	1	06/04/12 18:30	06/06/12 15:15	7782-49-2	
Silver, Dissolved	0.056J	ug/L	0.50	1	06/04/12 18:30	06/06/12 15:15	7440-22-4	
Thallium, Dissolved	0.19J	ug/L	1.0	1	06/04/12 18:30	06/06/12 15:15	7440-28-0	
Vanadium, Dissolved	3.3	ug/L	1.0	1	06/04/12 18:30	06/06/12 15:15	7440-62-2	
Zinc, Dissolved	121	ug/L	10.0	1	06/04/12 18:30	06/06/12 15:15	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	06/01/12 13:30	06/04/12 11:16	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	06/01/12 13:30	06/04/12 13:16	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	06/05/12 13:43	06/06/12 10:53	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	946	umhos/cm	10.0	1				06/04/12 13:18
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	606	mg/L	6.0	1				06/07/12 00:00

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: GW-4 20120524	Lab ID: 60122217014	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	0.46	PSU	0.010	1		06/07/12 00:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO ₃)	156	mg/L	20.0	1		06/05/12 13:30		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		06/05/12 13:30		
Alkalinity, Total as CaCO ₃	156	mg/L	20.0	1		06/05/12 13:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	659	mg/L	5.0	1		05/31/12 16:50		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	41.0	mg/L	5.0	1		05/31/12 15:00		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		05/31/12 05:45	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	392	mg/L	50.0	50		06/07/12 19:46	14808-79-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		06/01/12 18:27	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		06/12/12 08:48	7440-44-0	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: GW-5 20120524	Lab ID: 60122217015	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	453000 ug/L		100	1	06/05/12 09:50	06/06/12 16:28	7440-70-2	
Magnesium, Dissolved	44900 ug/L		50.0	1	06/05/12 09:50	06/06/12 16:28	7439-95-4	
Potassium, Dissolved	9320 ug/L		500	1	06/05/12 09:50	06/06/12 16:28	7440-09-7	
Sodium, Dissolved	5000 ug/L		500	1	06/05/12 09:50	06/06/12 16:28	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	20.3 ug/L		4.0	1	06/06/12 13:27	06/15/12 13:37	7429-90-5	
Antimony	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 13:37	7440-36-0	
Arsenic	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 13:37	7440-38-2	
Barium	0.38 ug/L		0.30	1	06/06/12 13:27	06/15/12 13:37	7440-39-3	
Beryllium	ND ug/L		0.20	1	06/06/12 13:27	06/15/12 13:37	7440-41-7	
Cadmium	ND ug/L		0.080	1	06/06/12 13:27	06/15/12 13:37	7440-43-9	
Calcium	818 ug/L		20.0	1	06/06/12 13:27	06/15/12 13:37	7440-70-2	
Chromium	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 13:37	7440-47-3	
Cobalt	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 13:37	7440-48-4	
Copper	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 13:37	7440-50-8	
Iron	ND ug/L		50.0	1	06/06/12 13:27	06/15/12 13:37	7439-89-6	
Lead	0.17 ug/L		0.10	1	06/06/12 13:27	06/15/12 13:37	7439-92-1	
Magnesium	111 ug/L		5.0	1	06/06/12 13:27	06/15/12 13:37	7439-95-4	
Manganese	3.1 ug/L		0.50	1	06/06/12 13:27	06/15/12 13:37	7439-96-5	
Molybdenum	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 13:37	7439-98-7	
Nickel	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 13:37	7440-02-0	
Potassium	ND ug/L		20.0	1	06/06/12 13:27	06/15/12 13:37	7440-09-7	
Selenium	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 13:37	7782-49-2	
Silica	110 ug/L		53.5	1	06/06/12 13:27	06/15/12 13:37	7631-86-9	
Silver	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 13:37	7440-22-4	
Sodium	ND ug/L		50.0	1	06/06/12 13:27	06/15/12 13:37	7440-23-5	
Thallium	ND ug/L		0.10	1	06/06/12 13:27	06/15/12 13:37	7440-28-0	
Total Hardness by 2340B	2500 ug/L		71.0	1	06/06/12 13:27	06/15/12 13:37		
Vanadium	ND ug/L		0.10	1	06/06/12 13:27	06/15/12 13:37	7440-62-2	
Zinc	ND ug/L		5.0	1	06/06/12 13:27	06/15/12 13:37	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	176 ug/L		4.0	1	06/06/12 13:24	06/20/12 18:03	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 18:03	7440-36-0	
Arsenic, Dissolved	38.6 ug/L		0.50	1	06/06/12 13:24	06/20/12 18:03	7440-38-2	
Barium, Dissolved	17.3 ug/L		0.30	1	06/06/12 13:24	06/20/12 18:03	7440-39-3	
Beryllium, Dissolved	0.30 ug/L		0.20	1	06/06/12 13:24	06/20/12 18:03	7440-41-7	
Cadmium, Dissolved	5.5 ug/L		0.080	1	06/06/12 13:24	06/20/12 18:03	7440-43-9	
Calcium, Dissolved	474000 ug/L		1000	50	06/06/12 13:24	06/21/12 07:50	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 18:03	7440-47-3	
Cobalt, Dissolved	41.8 ug/L		0.50	1	06/06/12 13:24	06/20/12 18:03	7440-48-4	
Copper, Dissolved	0.94 ug/L		0.50	1	06/06/12 13:24	06/20/12 18:03	7440-50-8	
Iron, Dissolved	20300 ug/L		50.0	1	06/06/12 13:24	06/20/12 18:03	7439-89-6	
Lead, Dissolved	92.9 ug/L		0.10	1	06/06/12 13:24	06/20/12 18:03	7439-92-1	
Magnesium, Dissolved	44300 ug/L		100	20	06/06/12 13:24	06/20/12 18:07	7439-95-4	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: GW-5 20120524	Lab ID: 60122217015	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	11700 ug/L		25.0	50	06/06/12 13:24	06/21/12 07:50	7439-96-5	
Molybdenum, Dissolved	3.7 ug/L		0.50	1	06/06/12 13:24	06/20/12 18:03	7439-98-7	
Nickel, Dissolved	58.1 ug/L		0.50	1	06/06/12 13:24	06/20/12 18:03	7440-02-0	
Potassium, Dissolved	8710 ug/L		20.0	1	06/06/12 13:24	06/20/12 18:03	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 18:03	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 18:03	7440-22-4	
Sodium, Dissolved	4610 ug/L		50.0	1	06/06/12 13:24	06/20/12 18:03	7440-23-5	
Thallium, Dissolved	0.31 ug/L		0.10	1	06/06/12 13:24	06/20/12 18:03	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	06/06/12 13:24	06/20/12 18:03	7440-62-2	
Zinc, Dissolved	40400 ug/L		250	50	06/06/12 13:24	06/21/12 07:50	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	420 ug/L		50.0	1	06/04/12 18:30	06/06/12 15:19	7429-90-5	
Antimony, Dissolved	0.17J ug/L		1.0	1	06/04/12 18:30	06/06/12 15:19	7440-36-0	
Arsenic, Dissolved	78.7 ug/L		1.0	1	06/04/12 18:30	06/06/12 15:19	7440-38-2	
Barium, Dissolved	16.6 ug/L		1.0	1	06/04/12 18:30	06/06/12 15:19	7440-39-3	
Beryllium, Dissolved	0.42J ug/L		0.50	1	06/04/12 18:30	06/06/12 15:19	7440-41-7	
Cadmium, Dissolved	8.4 ug/L		0.50	1	06/04/12 18:30	06/06/12 15:19	7440-43-9	
Chromium, Dissolved	0.37J ug/L		1.0	1	06/04/12 18:30	06/06/12 15:19	7440-47-3	
Cobalt, Dissolved	39.3 ug/L		1.0	1	06/04/12 18:30	06/06/12 15:19	7440-48-4	
Copper, Dissolved	38.7 ug/L		1.0	1	06/04/12 18:30	06/06/12 15:19	7440-50-8	
Iron, Dissolved	23600 ug/L		50.0	1	06/04/12 18:30	06/06/12 15:19	7439-89-6	
Lead, Dissolved	1030 ug/L		20.0	20	06/04/12 18:30	06/06/12 16:20	7439-92-1	
Manganese, Dissolved	11400 ug/L		20.0	20	06/04/12 18:30	06/06/12 16:20	7439-96-5	
Molybdenum, Dissolved	3.9 ug/L		1.0	1	06/04/12 18:30	06/06/12 15:19	7439-98-7	
Nickel, Dissolved	51.2 ug/L		1.0	1	06/04/12 18:30	06/06/12 15:19	7440-02-0	
Selenium, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/06/12 15:19	7782-49-2	
Silver, Dissolved	0.18J ug/L		0.50	1	06/04/12 18:30	06/06/12 15:19	7440-22-4	
Thallium, Dissolved	0.46J ug/L		1.0	1	06/04/12 18:30	06/06/12 15:19	7440-28-0	
Vanadium, Dissolved	0.39J ug/L		1.0	1	06/04/12 18:30	06/06/12 15:19	7440-62-2	
Zinc, Dissolved	39000 ug/L		200	20	06/04/12 18:30	06/06/12 16:20	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 11:18	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 13:18	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/05/12 13:43	06/06/12 10:56	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	2460 umhos/cm		10.0	1			06/04/12 13:19	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	1580 mg/L		6.0	1			06/07/12 00:00	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: GW-5 20120524	Lab ID: 60122217015	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	1.3	PSU	0.010	1		06/07/12 00:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	100	mg/L	20.0	1		06/05/12 13:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		06/05/12 13:30		
Alkalinity, Total as CaCO3	100	mg/L	20.0	1		06/05/12 13:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	2080	mg/L	5.0	1		05/31/12 16:50		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	117	mg/L	5.0	1		05/31/12 15:00		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		05/31/12 05:45	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	1610	mg/L	200	200		06/07/12 20:41	14808-79-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		06/01/12 18:30	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		06/12/12 09:16	7440-44-0	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: GW-7 20120523	Lab ID: 60122217016	Collected: 05/23/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	217000 ug/L		100	1	06/05/12 09:50	06/06/12 16:30	7440-70-2	
Magnesium, Dissolved	22800 ug/L		50.0	1	06/05/12 09:50	06/06/12 16:30	7439-95-4	
Potassium, Dissolved	2390 ug/L		500	1	06/05/12 09:50	06/06/12 16:30	7440-09-7	
Sodium, Dissolved	6700 ug/L		500	1	06/05/12 09:50	06/06/12 16:30	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	3820 ug/L		4.0	1	06/06/12 13:27	06/15/12 13:51	7429-90-5	
Antimony	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 13:51	7440-36-0	
Arsenic	4.9 ug/L		0.50	1	06/06/12 13:27	06/15/12 13:51	7440-38-2	
Barium	18.2 ug/L		0.30	1	06/06/12 13:27	06/15/12 13:51	7440-39-3	
Beryllium	0.63 ug/L		0.20	1	06/06/12 13:27	06/15/12 13:51	7440-41-7	
Cadmium	4.4 ug/L		0.080	1	06/06/12 13:27	06/15/12 13:51	7440-43-9	
Calcium	246000 ug/L		400	20	06/06/12 13:27	06/15/12 13:56	7440-70-2	
Chromium	3.9 ug/L		0.50	1	06/06/12 13:27	06/15/12 13:51	7440-47-3	
Cobalt	2.2 ug/L		0.50	1	06/06/12 13:27	06/15/12 13:51	7440-48-4	
Copper	58.3 ug/L		0.50	1	06/06/12 13:27	06/15/12 13:51	7440-50-8	
Iron	14600 ug/L		50.0	1	06/06/12 13:27	06/15/12 13:51	7439-89-6	
Lead	377 ug/L		0.10	1	06/06/12 13:27	06/15/12 13:51	7439-92-1	
Magnesium	25200 ug/L		100	20	06/06/12 13:27	06/15/12 13:56	7439-95-4	
Manganese	169 ug/L		0.50	1	06/06/12 13:27	06/15/12 13:51	7439-96-5	
Molybdenum	2.4 ug/L		0.50	1	06/06/12 13:27	06/15/12 13:51	7439-98-7	
Nickel	4.9 ug/L		0.50	1	06/06/12 13:27	06/15/12 13:51	7440-02-0	
Potassium	2760 ug/L		20.0	1	06/06/12 13:27	06/15/12 13:51	7440-09-7	
Selenium	5.4 ug/L		0.50	1	06/06/12 13:27	06/15/12 13:51	7782-49-2	
Silica	16200 ug/L		1070	20	06/06/12 13:27	06/15/12 13:56	7631-86-9	
Silver	0.76 ug/L		0.50	1	06/06/12 13:27	06/15/12 13:51	7440-22-4	
Sodium	7200 ug/L		50.0	1	06/06/12 13:27	06/15/12 13:51	7440-23-5	
Thallium	0.14 ug/L		0.10	1	06/06/12 13:27	06/15/12 13:51	7440-28-0	
Total Hardness by 2340B	718000 ug/L		1420	20	06/06/12 13:27	06/15/12 13:56		
Vanadium	2.7 ug/L		0.10	1	06/06/12 13:27	06/15/12 13:51	7440-62-2	
Zinc	392 ug/L		5.0	1	06/06/12 13:27	06/15/12 13:51	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	162 ug/L		4.0	1	06/06/12 13:24	06/20/12 18:12	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 18:12	7440-36-0	
Arsenic, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 18:12	7440-38-2	
Barium, Dissolved	12.2 ug/L		0.30	1	06/06/12 13:24	06/20/12 18:12	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	06/06/12 13:24	06/20/12 18:12	7440-41-7	
Cadmium, Dissolved	3.4 ug/L		0.080	1	06/06/12 13:24	06/20/12 18:12	7440-43-9	
Calcium, Dissolved	251000 ug/L		400	20	06/06/12 13:24	06/20/12 18:17	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 18:12	7440-47-3	
Cobalt, Dissolved	1.4 ug/L		0.50	1	06/06/12 13:24	06/20/12 18:12	7440-48-4	
Copper, Dissolved	5.4 ug/L		0.50	1	06/06/12 13:24	06/20/12 18:12	7440-50-8	
Iron, Dissolved	611 ug/L		50.0	1	06/06/12 13:24	06/20/12 18:12	7439-89-6	
Lead, Dissolved	3.6 ug/L		0.10	1	06/06/12 13:24	06/20/12 18:12	7439-92-1	
Magnesium, Dissolved	22100 ug/L		100	20	06/06/12 13:24	06/20/12 18:17	7439-95-4	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: GW-7 20120523	Lab ID: 60122217016	Collected: 05/23/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	120 ug/L		0.50	1	06/06/12 13:24	06/20/12 18:12	7439-96-5	
Molybdenum, Dissolved	1.1 ug/L		0.50	1	06/06/12 13:24	06/20/12 18:12	7439-98-7	
Nickel, Dissolved	2.6 ug/L		0.50	1	06/06/12 13:24	06/20/12 18:12	7440-02-0	
Potassium, Dissolved	2380 ug/L		20.0	1	06/06/12 13:24	06/20/12 18:12	7440-09-7	
Selenium, Dissolved	1.2 ug/L		0.50	1	06/06/12 13:24	06/20/12 18:12	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 18:12	7440-22-4	
Sodium, Dissolved	6650 ug/L		50.0	1	06/06/12 13:24	06/20/12 18:12	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	06/06/12 13:24	06/20/12 18:12	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	06/06/12 13:24	06/20/12 18:12	7440-62-2	
Zinc, Dissolved	202 ug/L		5.0	1	06/06/12 13:24	06/20/12 18:12	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	1760 ug/L		50.0	1	06/04/12 18:30	06/06/12 15:23	7429-90-5	
Antimony, Dissolved	0.14J ug/L		1.0	1	06/04/12 18:30	06/06/12 15:23	7440-36-0	
Arsenic, Dissolved	1.6 ug/L		1.0	1	06/04/12 18:30	06/06/12 15:23	7440-38-2	
Barium, Dissolved	12.3 ug/L		1.0	1	06/04/12 18:30	06/06/12 15:23	7440-39-3	
Beryllium, Dissolved	0.43J ug/L		0.50	1	06/04/12 18:30	06/06/12 15:23	7440-41-7	
Cadmium, Dissolved	3.4 ug/L		0.50	1	06/04/12 18:30	06/06/12 15:23	7440-43-9	
Chromium, Dissolved	1.4 ug/L		1.0	1	06/04/12 18:30	06/06/12 15:23	7440-47-3	
Cobalt, Dissolved	1.5 ug/L		1.0	1	06/04/12 18:30	06/06/12 15:23	7440-48-4	
Copper, Dissolved	32.6 ug/L		1.0	1	06/04/12 18:30	06/06/12 15:23	7440-50-8	
Iron, Dissolved	7150 ug/L		50.0	1	06/04/12 18:30	06/06/12 15:23	7439-89-6	
Lead, Dissolved	225 ug/L		1.0	1	06/04/12 18:30	06/06/12 15:23	7439-92-1	
Manganese, Dissolved	126 ug/L		1.0	1	06/04/12 18:30	06/06/12 15:23	7439-96-5	
Molybdenum, Dissolved	0.88J ug/L		1.0	1	06/04/12 18:30	06/06/12 15:23	7439-98-7	
Nickel, Dissolved	0.99J ug/L		1.0	1	06/04/12 18:30	06/06/12 15:23	7440-02-0	
Selenium, Dissolved	2.2 ug/L		1.0	1	06/04/12 18:30	06/06/12 15:23	7782-49-2	
Silver, Dissolved	0.26J ug/L		0.50	1	06/04/12 18:30	06/06/12 15:23	7440-22-4	
Thallium, Dissolved	0.22J ug/L		1.0	1	06/04/12 18:30	06/06/12 15:23	7440-28-0	
Vanadium, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/06/12 15:23	7440-62-2	
Zinc, Dissolved	274 ug/L		10.0	1	06/04/12 18:30	06/06/12 15:23	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 11:21	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 13:20	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/05/12 13:43	06/06/12 10:58	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	1250 umhos/cm		10.0	1			06/04/12 13:23	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	799 mg/L		6.0	1			06/07/12 00:00	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING
Pace Project No.: 60122217

Sample: GW-7 20120523	Lab ID: 60122217016	Collected: 05/23/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	0.62 PSU		0.010	1		06/07/12 00:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	228 mg/L		20.0	1		06/04/12 10:15		
Alkalinity, Carbonate (CaCO3)	ND mg/L		20.0	1		06/04/12 10:15		
Alkalinity, Total as CaCO3	228 mg/L		20.0	1		06/04/12 10:15		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	901 mg/L		5.0	1		05/31/12 16:53		H1
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	100 mg/L		5.0	1		05/31/12 10:37		H1
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND mg/L		0.050	1		05/31/12 07:36	18496-25-8	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	618 mg/L		50.0	50		06/07/12 21:35	14808-79-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND mg/L		0.0050	1		06/01/12 18:02	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND mg/L		1.0	1		06/12/12 09:45	7440-44-0	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: EB-1 20120523	Lab ID: 60122217017	Collected: 05/23/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	437000 ug/L		100	1	06/05/12 09:50	06/06/12 16:32	7440-70-2	
Magnesium, Dissolved	29200 ug/L		50.0	1	06/05/12 09:50	06/06/12 16:32	7439-95-4	
Potassium, Dissolved	6620 ug/L		500	1	06/05/12 09:50	06/06/12 16:32	7440-09-7	
Sodium, Dissolved	7620 ug/L		500	1	06/05/12 09:50	06/06/12 16:32	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	698 ug/L		4.0	1	06/06/12 13:27	06/15/12 14:00	7429-90-5	
Antimony	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 14:00	7440-36-0	
Arsenic	8.7 ug/L		0.50	1	06/06/12 13:27	06/15/12 14:00	7440-38-2	
Barium	19.1 ug/L		0.30	1	06/06/12 13:27	06/15/12 14:00	7440-39-3	
Beryllium	0.39 ug/L		0.20	1	06/06/12 13:27	06/15/12 14:00	7440-41-7	
Cadmium	2.3 ug/L		0.080	1	06/06/12 13:27	06/15/12 14:00	7440-43-9	
Calcium	520000 ug/L		1000	50	06/06/12 13:27	06/15/12 14:10	7440-70-2	
Chromium	1.0 ug/L		0.50	1	06/06/12 13:27	06/15/12 14:00	7440-47-3	
Cobalt	6.7 ug/L		0.50	1	06/06/12 13:27	06/15/12 14:00	7440-48-4	
Copper	42.0 ug/L		0.50	1	06/06/12 13:27	06/15/12 14:00	7440-50-8	
Iron	11000 ug/L		50.0	1	06/06/12 13:27	06/15/12 14:00	7439-89-6	
Lead	106 ug/L		0.10	1	06/06/12 13:27	06/15/12 14:00	7439-92-1	
Magnesium	32300 ug/L		25.0	5	06/06/12 13:27	06/15/12 14:05	7439-95-4	
Manganese	5520 ug/L		25.0	50	06/06/12 13:27	06/15/12 14:10	7439-96-5	
Molybdenum	15.0 ug/L		0.50	1	06/06/12 13:27	06/15/12 14:00	7439-98-7	
Nickel	6.3 ug/L		0.50	1	06/06/12 13:27	06/15/12 14:00	7440-02-0	
Potassium	6640 ug/L		20.0	1	06/06/12 13:27	06/15/12 14:00	7440-09-7	
Selenium	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 14:00	7782-49-2	
Silica	29100 ug/L		2680	50	06/06/12 13:27	06/15/12 14:10	7631-86-9	
Silver	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 14:00	7440-22-4	
Sodium	7930 ug/L		50.0	1	06/06/12 13:27	06/15/12 14:00	7440-23-5	
Thallium	ND ug/L		0.10	1	06/06/12 13:27	06/15/12 14:00	7440-28-0	
Total Hardness by 2340B	1430000 ug/L		3550	50	06/06/12 13:27	06/15/12 14:10		
Vanadium	1.0 ug/L		0.10	1	06/06/12 13:27	06/15/12 14:00	7440-62-2	
Zinc	2020 ug/L		25.0	5	06/06/12 13:27	06/15/12 14:05	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	10.1 ug/L		4.0	1	06/06/12 13:24	06/20/12 18:49	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 18:49	7440-36-0	
Arsenic, Dissolved	2.2 ug/L		0.50	1	06/06/12 13:24	06/20/12 18:49	7440-38-2	
Barium, Dissolved	13.2 ug/L		0.30	1	06/06/12 13:24	06/20/12 18:49	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	06/06/12 13:24	06/20/12 18:49	7440-41-7	
Cadmium, Dissolved	0.20 ug/L		0.080	1	06/06/12 13:24	06/20/12 18:49	7440-43-9	
Calcium, Dissolved	496000 ug/L		400	20	06/06/12 13:24	06/20/12 18:54	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 18:49	7440-47-3	
Cobalt, Dissolved	6.0 ug/L		0.50	1	06/06/12 13:24	06/20/12 18:49	7440-48-4	
Copper, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 18:49	7440-50-8	
Iron, Dissolved	6210 ug/L		50.0	1	06/06/12 13:24	06/20/12 18:49	7439-89-6	
Lead, Dissolved	0.12 ug/L		0.10	1	06/06/12 13:24	06/20/12 18:49	7439-92-1	
Magnesium, Dissolved	28700 ug/L		100	20	06/06/12 13:24	06/20/12 18:54	7439-95-4	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: EB-1 20120523	Lab ID: 60122217017	Collected: 05/23/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	4740 ug/L		10.0	20	06/06/12 13:24	06/20/12 18:54	7439-96-5	
Molybdenum, Dissolved	14.5 ug/L		0.50	1	06/06/12 13:24	06/20/12 18:49	7439-98-7	
Nickel, Dissolved	5.4 ug/L		0.50	1	06/06/12 13:24	06/20/12 18:49	7440-02-0	
Potassium, Dissolved	6310 ug/L		20.0	1	06/06/12 13:24	06/20/12 18:49	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 18:49	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 18:49	7440-22-4	
Sodium, Dissolved	7210 ug/L		50.0	1	06/06/12 13:24	06/20/12 18:49	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	06/06/12 13:24	06/20/12 18:49	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	06/06/12 13:24	06/20/12 18:49	7440-62-2	
Zinc, Dissolved	1390 ug/L		100	20	06/06/12 13:24	06/20/12 18:54	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	298 ug/L		50.0	1	06/04/12 18:30	06/06/12 15:27	7429-90-5	
Antimony, Dissolved	0.11J ug/L		1.0	1	06/04/12 18:30	06/06/12 15:27	7440-36-0	
Arsenic, Dissolved	7.1 ug/L		1.0	1	06/04/12 18:30	06/06/12 15:27	7440-38-2	
Barium, Dissolved	14.5 ug/L		1.0	1	06/04/12 18:30	06/06/12 15:27	7440-39-3	
Beryllium, Dissolved	0.30J ug/L		0.50	1	06/04/12 18:30	06/06/12 15:27	7440-41-7	
Cadmium, Dissolved	1.6 ug/L		0.50	1	06/04/12 18:30	06/06/12 15:27	7440-43-9	
Chromium, Dissolved	0.54J ug/L		1.0	1	06/04/12 18:30	06/06/12 15:27	7440-47-3	
Cobalt, Dissolved	5.7 ug/L		1.0	1	06/04/12 18:30	06/06/12 15:27	7440-48-4	
Copper, Dissolved	27.7 ug/L		1.0	1	06/04/12 18:30	06/06/12 15:27	7440-50-8	
Iron, Dissolved	9070 ug/L		50.0	1	06/04/12 18:30	06/06/12 15:27	7439-89-6	
Lead, Dissolved	96.1 ug/L		1.0	1	06/04/12 18:30	06/06/12 15:27	7439-92-1	
Manganese, Dissolved	5020 ug/L		5.0	5	06/04/12 18:30	06/06/12 16:24	7439-96-5	
Molybdenum, Dissolved	13.8 ug/L		1.0	1	06/04/12 18:30	06/06/12 15:27	7439-98-7	
Nickel, Dissolved	0.90J ug/L		1.0	1	06/04/12 18:30	06/06/12 15:27	7440-02-0	
Selenium, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/06/12 15:27	7782-49-2	
Silver, Dissolved	0.083J ug/L		0.50	1	06/04/12 18:30	06/06/12 15:27	7440-22-4	
Thallium, Dissolved	0.13J ug/L		1.0	1	06/04/12 18:30	06/06/12 15:27	7440-28-0	
Vanadium, Dissolved	0.57J ug/L		1.0	1	06/04/12 18:30	06/06/12 15:27	7440-62-2	
Zinc, Dissolved	1760 ug/L		10.0	1	06/04/12 18:30	06/06/12 15:27	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 11:23	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 13:22	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/05/12 13:43	06/06/12 11:00	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	2180 umhos/cm		10.0	1			06/04/12 13:25	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	1400 mg/L		6.0	1			06/07/12 00:00	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: EB-1 20120523	Lab ID: 60122217017	Collected: 05/23/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	1.1	PSU	0.010	1		06/07/12 00:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO ₃)	192	mg/L	20.0	1		06/04/12 10:15		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		06/04/12 10:15		
Alkalinity, Total as CaCO ₃	192	mg/L	20.0	1		06/04/12 10:15		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	1860	mg/L	5.0	1		05/31/12 16:53		H1
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	33.0	mg/L	5.0	1		05/31/12 10:37		H1
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		05/31/12 07:36	18496-25-8	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	1310	mg/L	200	200		06/07/12 21:54	14808-79-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	0.016	mg/L	0.0050	1		06/01/12 18:04	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		06/13/12 09:15	7440-44-0	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: EB-2 20120523	Lab ID: 60122217018	Collected: 05/23/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	337000 ug/L		500	5	06/05/12 09:50	06/07/12 11:53	7440-70-2	
Magnesium, Dissolved	149000 ug/L		250	5	06/05/12 09:50	06/07/12 11:53	7439-95-4	
Potassium, Dissolved	14600 ug/L		2500	5	06/05/12 09:50	06/07/12 11:53	7440-09-7	
Sodium, Dissolved	7600 ug/L		2500	5	06/05/12 09:50	06/07/12 11:53	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	18800 ug/L		4.0	1	06/06/12 13:27	06/15/12 14:24	7429-90-5	
Antimony	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 14:24	7440-36-0	
Arsenic	40.0 ug/L		0.50	1	06/06/12 13:27	06/15/12 14:24	7440-38-2	
Barium	13.7 ug/L		0.30	1	06/06/12 13:27	06/15/12 14:24	7440-39-3	
Beryllium	8.6 ug/L		0.20	1	06/06/12 13:27	06/15/12 14:24	7440-41-7	
Cadmium	2.6 ug/L		0.080	1	06/06/12 13:27	06/15/12 14:24	7440-43-9	
Calcium	350000 ug/L		400	20	06/06/12 13:27	06/15/12 14:28	7440-70-2	
Chromium	0.58 ug/L		0.50	1	06/06/12 13:27	06/15/12 14:24	7440-47-3	
Cobalt	86.9 ug/L		0.50	1	06/06/12 13:27	06/15/12 14:24	7440-48-4	
Copper	24.7 ug/L		0.50	1	06/06/12 13:27	06/15/12 14:24	7440-50-8	
Iron	604000 ug/L		10000	200	06/06/12 13:27	06/15/12 14:33	7439-89-6	
Lead	248 ug/L		0.10	1	06/06/12 13:27	06/15/12 14:24	7439-92-1	
Magnesium	153000 ug/L		100	20	06/06/12 13:27	06/15/12 14:28	7439-95-4	
Manganese	36800 ug/L		100	200	06/06/12 13:27	06/15/12 14:33	7439-96-5	
Molybdenum	0.74 ug/L		0.50	1	06/06/12 13:27	06/15/12 14:24	7439-98-7	
Nickel	123 ug/L		0.50	1	06/06/12 13:27	06/15/12 14:24	7440-02-0	
Potassium	14400 ug/L		20.0	1	06/06/12 13:27	06/15/12 14:24	7440-09-7	
Selenium	1.3 ug/L		0.50	1	06/06/12 13:27	06/15/12 14:24	7782-49-2	
Silica	34100 ug/L		1070	20	06/06/12 13:27	06/15/12 14:28	7631-86-9	
Silver	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 14:24	7440-22-4	
Sodium	7060 ug/L		50.0	1	06/06/12 13:27	06/15/12 14:24	7440-23-5	
Thallium	0.12 ug/L		0.10	1	06/06/12 13:27	06/15/12 14:24	7440-28-0	
Total Hardness by 2340B	1510000 ug/L		1420	20	06/06/12 13:27	06/15/12 14:28		
Vanadium	0.52 ug/L		0.10	1	06/06/12 13:27	06/15/12 14:24	7440-62-2	
Zinc	61600 ug/L		1000	200	06/06/12 13:27	06/15/12 14:33	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	18300 ug/L		4.0	1	06/06/12 13:24	06/20/12 18:58	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 18:58	7440-36-0	
Arsenic, Dissolved	6.1 ug/L		0.50	1	06/06/12 13:24	06/20/12 18:58	7440-38-2	
Barium, Dissolved	10.8 ug/L		0.30	1	06/06/12 13:24	06/20/12 18:58	7440-39-3	
Beryllium, Dissolved	8.6 ug/L		0.20	1	06/06/12 13:24	06/20/12 18:58	7440-41-7	
Cadmium, Dissolved	1.3 ug/L		0.080	1	06/06/12 13:24	06/20/12 18:58	7440-43-9	
Calcium, Dissolved	367000 ug/L		400	20	06/06/12 13:24	06/20/12 19:03	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 18:58	7440-47-3	
Cobalt, Dissolved	86.8 ug/L		0.50	1	06/06/12 13:24	06/20/12 18:58	7440-48-4	
Copper, Dissolved	0.91 ug/L		0.50	1	06/06/12 13:24	06/20/12 18:58	7440-50-8	
Iron, Dissolved	573000 ug/L		10000	200	06/06/12 13:24	06/20/12 19:08	7439-89-6	
Lead, Dissolved	9.0 ug/L		0.10	1	06/06/12 13:24	06/20/12 18:58	7439-92-1	
Magnesium, Dissolved	151000 ug/L		100	20	06/06/12 13:24	06/20/12 19:03	7439-95-4	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: EB-2 20120523	Lab ID: 60122217018	Collected: 05/23/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	34700 ug/L		100	200	06/06/12 13:24	06/20/12 19:08	7439-96-5	
Molybdenum, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 18:58	7439-98-7	
Nickel, Dissolved	124 ug/L		0.50	1	06/06/12 13:24	06/20/12 18:58	7440-02-0	
Potassium, Dissolved	13700 ug/L		20.0	1	06/06/12 13:24	06/20/12 18:58	7440-09-7	
Selenium, Dissolved	1.3 ug/L		0.50	1	06/06/12 13:24	06/20/12 18:58	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 18:58	7440-22-4	
Sodium, Dissolved	6400 ug/L		50.0	1	06/06/12 13:24	06/20/12 18:58	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	06/06/12 13:24	06/20/12 18:58	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	06/06/12 13:24	06/20/12 18:58	7440-62-2	
Zinc, Dissolved	58600 ug/L		1000	200	06/06/12 13:24	06/20/12 19:08	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	18100 ug/L		50.0	1	06/04/12 18:30	06/06/12 15:31	7429-90-5	
Antimony, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/06/12 15:31	7440-36-0	
Arsenic, Dissolved	33.8 ug/L		5.0	5	06/04/12 18:30	06/07/12 13:45	7440-38-2	
Barium, Dissolved	10.4 ug/L		1.0	1	06/04/12 18:30	06/06/12 15:31	7440-39-3	
Beryllium, Dissolved	8.6 ug/L		0.50	1	06/04/12 18:30	06/06/12 15:31	7440-41-7	
Cadmium, Dissolved	2.5 ug/L		0.50	1	06/04/12 18:30	06/06/12 15:31	7440-43-9	
Chromium, Dissolved	0.53J ug/L		1.0	1	06/04/12 18:30	06/06/12 15:31	7440-47-3	
Cobalt, Dissolved	85.4 ug/L		1.0	1	06/04/12 18:30	06/06/12 15:31	7440-48-4	
Copper, Dissolved	20.4 ug/L		1.0	1	06/04/12 18:30	06/06/12 15:31	7440-50-8	
Iron, Dissolved	606000 ug/L		2500	50	06/04/12 18:30	06/06/12 16:28	7439-89-6	
Lead, Dissolved	225 ug/L		1.0	1	06/04/12 18:30	06/06/12 15:31	7439-92-1	
Manganese, Dissolved	36400 ug/L		50.0	50	06/04/12 18:30	06/06/12 16:28	7439-96-5	
Molybdenum, Dissolved	0.94J ug/L		5.0	5	06/04/12 18:30	06/07/12 13:45	7439-98-7	
Nickel, Dissolved	122 ug/L		1.0	1	06/04/12 18:30	06/06/12 15:31	7440-02-0	
Selenium, Dissolved	2.1J ug/L		5.0	5	06/04/12 18:30	06/07/12 13:45	7782-49-2	
Silver, Dissolved	0.071J ug/L		0.50	1	06/04/12 18:30	06/06/12 15:31	7440-22-4	
Thallium, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/06/12 15:31	7440-28-0	
Vanadium, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/06/12 15:31	7440-62-2	
Zinc, Dissolved	62400 ug/L		500	50	06/04/12 18:30	06/06/12 16:28	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 11:25	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 13:33	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/05/12 13:43	06/06/12 11:02	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	3790 umhos/cm		10.0	1			06/04/12 13:27	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	2430 mg/L		6.0	1			06/07/12 00:00	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: EB-2 20120523	Lab ID: 60122217018	Collected: 05/23/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	2.0	PSU	0.010	1		06/07/12 00:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO ₃)	ND	mg/L	20.0	1		06/04/12 10:15		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		06/04/12 10:15		
Alkalinity, Total as CaCO ₃	ND	mg/L	20.0	1		06/04/12 10:15		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	3940	mg/L	5.0	1		05/31/12 16:54		H1
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	248	mg/L	5.0	1		05/31/12 10:37		H1
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		05/31/12 07:37	18496-25-8	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	3400	mg/L	500	500		06/07/12 22:12	14808-79-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	0.031	mg/L	0.0050	1		06/01/12 18:05	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		06/12/12 10:40	7440-44-0	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: MW-1 SHALLOW 20120523	Lab ID: 60122217019	Collected: 05/23/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	219000 ug/L		100	1	06/05/12 09:50	06/06/12 16:36	7440-70-2	
Magnesium, Dissolved	19700 ug/L		50.0	1	06/05/12 09:50	06/06/12 16:36	7439-95-4	
Potassium, Dissolved	1680 ug/L		500	1	06/05/12 09:50	06/06/12 16:36	7440-09-7	
Sodium, Dissolved	10800 ug/L		500	1	06/05/12 09:50	06/06/12 16:36	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	2200 ug/L		4.0	1	06/06/12 13:27	06/15/12 14:38	7429-90-5	
Antimony	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 14:38	7440-36-0	
Arsenic	2.1 ug/L		0.50	1	06/06/12 13:27	06/15/12 14:38	7440-38-2	
Barium	57.8 ug/L		0.30	1	06/06/12 13:27	06/15/12 14:38	7440-39-3	
Beryllium	0.26 ug/L		0.20	1	06/06/12 13:27	06/15/12 14:38	7440-41-7	
Cadmium	0.66 ug/L		0.080	1	06/06/12 13:27	06/15/12 14:38	7440-43-9	
Calcium	246000 ug/L		400	20	06/06/12 13:27	06/15/12 14:42	7440-70-2	
Chromium	2.3 ug/L		0.50	1	06/06/12 13:27	06/15/12 14:38	7440-47-3	
Cobalt	2.1 ug/L		0.50	1	06/06/12 13:27	06/15/12 14:38	7440-48-4	
Copper	9.0 ug/L		0.50	1	06/06/12 13:27	06/15/12 14:38	7440-50-8	
Iron	2980 ug/L		50.0	1	06/06/12 13:27	06/15/12 14:38	7439-89-6	
Lead	20.4 ug/L		0.10	1	06/06/12 13:27	06/15/12 14:38	7439-92-1	
Magnesium	21800 ug/L		5.0	1	06/06/12 13:27	06/15/12 14:38	7439-95-4	
Manganese	204 ug/L		0.50	1	06/06/12 13:27	06/15/12 14:38	7439-96-5	
Molybdenum	6.6 ug/L		0.50	1	06/06/12 13:27	06/15/12 14:38	7439-98-7	
Nickel	1.9 ug/L		0.50	1	06/06/12 13:27	06/15/12 14:38	7440-02-0	
Potassium	2060 ug/L		20.0	1	06/06/12 13:27	06/15/12 14:38	7440-09-7	
Selenium	12.5 ug/L		0.50	1	06/06/12 13:27	06/15/12 14:38	7782-49-2	
Silica	20700 ug/L		1070	20	06/06/12 13:27	06/15/12 14:42	7631-86-9	
Silver	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 14:38	7440-22-4	
Sodium	11400 ug/L		50.0	1	06/06/12 13:27	06/15/12 14:38	7440-23-5	
Thallium	ND ug/L		0.10	1	06/06/12 13:27	06/15/12 14:38	7440-28-0	
Total Hardness by 2340B	704000 ug/L		1420	20	06/06/12 13:27	06/15/12 14:42		
Vanadium	3.3 ug/L		0.10	1	06/06/12 13:27	06/15/12 14:38	7440-62-2	
Zinc	85.0 ug/L		5.0	1	06/06/12 13:27	06/15/12 14:38	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	10.2 ug/L		4.0	1	06/06/12 13:24	06/20/12 19:12	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 19:12	7440-36-0	
Arsenic, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 19:12	7440-38-2	
Barium, Dissolved	22.4 ug/L		0.30	1	06/06/12 13:24	06/20/12 19:12	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	06/06/12 13:24	06/20/12 19:12	7440-41-7	
Cadmium, Dissolved	0.32 ug/L		0.080	1	06/06/12 13:24	06/20/12 19:12	7440-43-9	
Calcium, Dissolved	259000 ug/L		400	20	06/06/12 13:24	06/20/12 19:17	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 19:12	7440-47-3	
Cobalt, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 19:12	7440-48-4	
Copper, Dissolved	0.86 ug/L		0.50	1	06/06/12 13:24	06/20/12 19:12	7440-50-8	
Iron, Dissolved	ND ug/L		50.0	1	06/06/12 13:24	06/20/12 19:12	7439-89-6	
Lead, Dissolved	0.29 ug/L		0.10	1	06/06/12 13:24	06/20/12 19:12	7439-92-1	
Magnesium, Dissolved	20900 ug/L		5.0	1	06/06/12 13:24	06/20/12 19:12	7439-95-4	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: MW-1 SHALLOW 20120523	Lab ID: 60122217019	Collected: 05/23/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	3.0 ug/L		0.50	1	06/06/12 13:24	06/20/12 19:12	7439-96-5	
Molybdenum, Dissolved	7.5 ug/L		0.50	1	06/06/12 13:24	06/20/12 19:12	7439-98-7	
Nickel, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 19:12	7440-02-0	
Potassium, Dissolved	1610 ug/L		20.0	1	06/06/12 13:24	06/20/12 19:12	7440-09-7	
Selenium, Dissolved	11.7 ug/L		0.50	1	06/06/12 13:24	06/20/12 19:12	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 19:12	7440-22-4	
Sodium, Dissolved	11000 ug/L		50.0	1	06/06/12 13:24	06/20/12 19:12	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	06/06/12 13:24	06/20/12 19:12	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	06/06/12 13:24	06/20/12 19:12	7440-62-2	
Zinc, Dissolved	40.7 ug/L		5.0	1	06/06/12 13:24	06/20/12 19:12	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	16.0J ug/L		50.0	1	06/04/12 18:30	06/07/12 14:38	7429-90-5	
Antimony, Dissolved	0.22J ug/L		1.0	1	06/04/12 18:30	06/07/12 14:38	7440-36-0	
Arsenic, Dissolved	0.33J ug/L		1.0	1	06/04/12 18:30	06/07/12 14:38	7440-38-2	
Barium, Dissolved	19.3 ug/L		1.0	1	06/04/12 18:30	06/07/12 14:38	7440-39-3	
Beryllium, Dissolved	0.079J ug/L		0.50	1	06/04/12 18:30	06/07/12 14:38	7440-41-7	
Cadmium, Dissolved	0.23J ug/L		0.50	1	06/04/12 18:30	06/07/12 14:38	7440-43-9	
Chromium, Dissolved	0.18J ug/L		1.0	1	06/04/12 18:30	06/07/12 14:38	7440-47-3	
Cobalt, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/07/12 14:38	7440-48-4	
Copper, Dissolved	0.78J ug/L		1.0	1	06/04/12 18:30	06/07/12 14:38	7440-50-8	
Iron, Dissolved	171 ug/L		50.0	1	06/04/12 18:30	06/07/12 14:38	7439-89-6	
Lead, Dissolved	1.6 ug/L		1.0	1	06/04/12 18:30	06/07/12 14:38	7439-92-1	
Manganese, Dissolved	11.0 ug/L		1.0	1	06/04/12 18:30	06/07/12 14:38	7439-96-5	
Molybdenum, Dissolved	7.2 ug/L		1.0	1	06/04/12 18:30	06/07/12 14:38	7439-98-7	
Nickel, Dissolved	ND ug/L		5.0	5	06/04/12 18:30	06/07/12 15:39	7440-02-0	D3
Selenium, Dissolved	10.3 ug/L		1.0	1	06/04/12 18:30	06/07/12 14:38	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	06/04/12 18:30	06/07/12 14:38	7440-22-4	
Thallium, Dissolved	0.15J ug/L		1.0	1	06/04/12 18:30	06/07/12 14:38	7440-28-0	
Vanadium, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/07/12 14:38	7440-62-2	
Zinc, Dissolved	51.8 ug/L		10.0	1	06/04/12 18:30	06/07/12 14:38	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 11:27	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 13:35	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/05/12 13:43	06/06/12 11:05	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	1280 umhos/cm		10.0	1			06/04/12 13:32	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	821 mg/L		6.0	1			06/07/12 00:00	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING
Pace Project No.: 60122217

Sample: MW-1 SHALLOW 20120523	Lab ID: 60122217019	Collected: 05/23/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	0.64 PSU		0.010	1		06/07/12 00:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO ₃)	90.0 mg/L		20.0	1		06/04/12 10:15		
Alkalinity, Carbonate (CaCO ₃)	ND mg/L		20.0	1		06/04/12 10:15		
Alkalinity, Total as CaCO ₃	90.0 mg/L		20.0	1		06/04/12 10:15		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	1070 mg/L		5.0	1		05/31/12 16:54		H1
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	29.0 mg/L		5.0	1		05/31/12 10:37		H1
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND mg/L		0.050	1		05/31/12 07:37	18496-25-8	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	821 mg/L		50.0	50		06/07/12 22:30	14808-79-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND mg/L		0.0050	1		06/01/12 18:06	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND mg/L		1.0	1		06/12/12 10:54	7440-44-0	

ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: MW-1 DEEP 20120523	Lab ID: 60122217020	Collected: 05/23/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	222000 ug/L		100	1	06/05/12 09:50	06/06/12 16:38	7440-70-2	
Magnesium, Dissolved	19800 ug/L		50.0	1	06/05/12 09:50	06/06/12 16:38	7439-95-4	
Potassium, Dissolved	1870 ug/L		500	1	06/05/12 09:50	06/06/12 16:38	7440-09-7	
Sodium, Dissolved	11200 ug/L		500	1	06/05/12 09:50	06/06/12 16:38	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	44.2 ug/L		4.0	1	06/06/12 13:27	06/15/12 14:47	7429-90-5	
Antimony	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 14:47	7440-36-0	
Arsenic	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 14:47	7440-38-2	
Barium	17.1 ug/L		0.30	1	06/06/12 13:27	06/15/12 14:47	7440-39-3	
Beryllium	ND ug/L		0.20	1	06/06/12 13:27	06/15/12 14:47	7440-41-7	
Cadmium	2.6 ug/L		0.080	1	06/06/12 13:27	06/15/12 14:47	7440-43-9	
Calcium	236000 ug/L		400	20	06/06/12 13:27	06/15/12 14:52	7440-70-2	
Chromium	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 14:47	7440-47-3	
Cobalt	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 14:47	7440-48-4	
Copper	4.2 ug/L		0.50	1	06/06/12 13:27	06/15/12 14:47	7440-50-8	
Iron	138 ug/L		50.0	1	06/06/12 13:27	06/15/12 14:47	7439-89-6	
Lead	2.5 ug/L		0.10	1	06/06/12 13:27	06/15/12 14:47	7439-92-1	
Magnesium	20200 ug/L		5.0	1	06/06/12 13:27	06/15/12 14:47	7439-95-4	
Manganese	13.2 ug/L		0.50	1	06/06/12 13:27	06/15/12 14:47	7439-96-5	
Molybdenum	8.9 ug/L		0.50	1	06/06/12 13:27	06/15/12 14:47	7439-98-7	
Nickel	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 14:47	7440-02-0	
Potassium	1780 ug/L		20.0	1	06/06/12 13:27	06/15/12 14:47	7440-09-7	
Selenium	9.8 ug/L		0.50	1	06/06/12 13:27	06/15/12 14:47	7782-49-2	
Silica	12400 ug/L		1070	20	06/06/12 13:27	06/15/12 14:52	7631-86-9	
Silver	ND ug/L		0.50	1	06/06/12 13:27	06/15/12 14:47	7440-22-4	
Sodium	11400 ug/L		50.0	1	06/06/12 13:27	06/15/12 14:47	7440-23-5	
Thallium	ND ug/L		0.10	1	06/06/12 13:27	06/15/12 14:47	7440-28-0	
Total Hardness by 2340B	673000 ug/L		1420	20	06/06/12 13:27	06/15/12 14:52		
Vanadium	0.13 ug/L		0.10	1	06/06/12 13:27	06/15/12 14:47	7440-62-2	
Zinc	522 ug/L		100	20	06/06/12 13:27	06/15/12 14:52	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	7.5 ug/L		4.0	1	06/06/12 13:24	06/20/12 19:35	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 19:35	7440-36-0	
Arsenic, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 19:35	7440-38-2	
Barium, Dissolved	15.2 ug/L		0.30	1	06/06/12 13:24	06/20/12 19:35	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	06/06/12 13:24	06/20/12 19:35	7440-41-7	
Cadmium, Dissolved	2.4 ug/L		0.080	1	06/06/12 13:24	06/20/12 19:35	7440-43-9	
Calcium, Dissolved	245000 ug/L		400	20	06/06/12 13:24	06/20/12 19:40	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 19:35	7440-47-3	
Cobalt, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 19:35	7440-48-4	
Copper, Dissolved	2.9 ug/L		0.50	1	06/06/12 13:24	06/20/12 19:35	7440-50-8	
Iron, Dissolved	ND ug/L		50.0	1	06/06/12 13:24	06/20/12 19:35	7439-89-6	
Lead, Dissolved	0.10 ug/L		0.10	1	06/06/12 13:24	06/20/12 19:35	7439-92-1	
Magnesium, Dissolved	19300 ug/L		5.0	1	06/06/12 13:24	06/20/12 19:35	7439-95-4	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: MW-1 DEEP 20120523	Lab ID: 60122217020	Collected: 05/23/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	2.0 ug/L		0.50	1	06/06/12 13:24	06/20/12 19:35	7439-96-5	
Molybdenum, Dissolved	8.7 ug/L		0.50	1	06/06/12 13:24	06/20/12 19:35	7439-98-7	
Nickel, Dissolved	0.56 ug/L		0.50	1	06/06/12 13:24	06/20/12 19:35	7440-02-0	
Potassium, Dissolved	1720 ug/L		20.0	1	06/06/12 13:24	06/20/12 19:35	7440-09-7	
Selenium, Dissolved	8.9 ug/L		0.50	1	06/06/12 13:24	06/20/12 19:35	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	06/06/12 13:24	06/20/12 19:35	7440-22-4	
Sodium, Dissolved	10700 ug/L		50.0	1	06/06/12 13:24	06/20/12 19:35	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	06/06/12 13:24	06/20/12 19:35	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	06/06/12 13:24	06/20/12 19:35	7440-62-2	
Zinc, Dissolved	472 ug/L		100	20	06/06/12 13:24	06/20/12 19:40	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	ND ug/L		50.0	1	06/04/12 18:30	06/07/12 14:42	7429-90-5	
Antimony, Dissolved	0.24J ug/L		1.0	1	06/04/12 18:30	06/07/12 14:42	7440-36-0	
Arsenic, Dissolved	0.64J ug/L		1.0	1	06/04/12 18:30	06/07/12 14:42	7440-38-2	
Barium, Dissolved	14.9 ug/L		1.0	1	06/04/12 18:30	06/07/12 14:42	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.50	1	06/04/12 18:30	06/07/12 14:42	7440-41-7	
Cadmium, Dissolved	2.4 ug/L		0.50	1	06/04/12 18:30	06/07/12 14:42	7440-43-9	
Chromium, Dissolved	0.38J ug/L		1.0	1	06/04/12 18:30	06/07/12 14:42	7440-47-3	
Cobalt, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/07/12 14:42	7440-48-4	
Copper, Dissolved	4.4 ug/L		1.0	1	06/04/12 18:30	06/07/12 14:42	7440-50-8	
Iron, Dissolved	161 ug/L		50.0	1	06/04/12 18:30	06/07/12 14:42	7439-89-6	
Lead, Dissolved	3.5 ug/L		1.0	1	06/04/12 18:30	06/07/12 14:42	7439-92-1	
Manganese, Dissolved	16.5 ug/L		1.0	1	06/04/12 18:30	06/07/12 14:42	7439-96-5	
Molybdenum, Dissolved	8.7 ug/L		1.0	1	06/04/12 18:30	06/07/12 14:42	7439-98-7	
Nickel, Dissolved	ND ug/L		5.0	5	06/04/12 18:30	06/07/12 15:43	7440-02-0	
Selenium, Dissolved	8.1 ug/L		1.0	1	06/04/12 18:30	06/07/12 14:42	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	06/04/12 18:30	06/07/12 14:42	7440-22-4	
Thallium, Dissolved	0.14J ug/L		1.0	1	06/04/12 18:30	06/07/12 14:42	7440-28-0	
Vanadium, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/07/12 14:42	7440-62-2	
Zinc, Dissolved	505 ug/L		10.0	1	06/04/12 18:30	06/07/12 14:42	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 11:30	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 13:38	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/05/12 13:43	06/06/12 11:07	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	1260 umhos/cm		10.0	1			06/04/12 13:33	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	810 mg/L		6.0	1			06/07/12 00:00	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: MW-1 DEEP 20120523	Lab ID: 60122217020	Collected: 05/23/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	0.63 PSU		0.010	1		06/07/12 00:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO ₃)	98.0 mg/L		20.0	1		06/04/12 10:15		
Alkalinity, Carbonate (CaCO ₃)	ND mg/L		20.0	1		06/04/12 10:15		
Alkalinity, Total as CaCO ₃	98.0 mg/L		20.0	1		06/04/12 10:15		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	1040 mg/L		5.0	1		05/31/12 16:54		H1
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND mg/L		5.0	1		05/31/12 10:37		H1
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND mg/L		0.050	1		05/31/12 07:39	18496-25-8	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	732 mg/L		50.0	50		06/07/12 22:48	14808-79-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND mg/L		0.0050	1		06/01/12 18:06	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND mg/L		1.0	1		06/12/12 11:07	7440-44-0	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: MW-2 DEEP 20120524	Lab ID: 60122217021	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	229000 ug/L		100	1	06/05/12 09:50	06/06/12 16:45	7440-70-2	
Magnesium, Dissolved	22600 ug/L		50.0	1	06/05/12 09:50	06/06/12 16:45	7439-95-4	
Potassium, Dissolved	1830 ug/L		500	1	06/05/12 09:50	06/06/12 16:45	7440-09-7	
Sodium, Dissolved	9200 ug/L		500	1	06/05/12 09:50	06/06/12 16:45	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	108 ug/L		4.0	1	06/06/12 16:01	06/15/12 15:29	7429-90-5	M6
Antimony	ND ug/L		0.50	1	06/06/12 16:01	06/15/12 15:29	7440-36-0	
Arsenic	ND ug/L		0.50	1	06/06/12 16:01	06/15/12 15:29	7440-38-2	
Barium	14.7 ug/L		0.30	1	06/06/12 16:01	06/15/12 15:29	7440-39-3	
Beryllium	ND ug/L		0.20	1	06/06/12 16:01	06/15/12 15:29	7440-41-7	
Cadmium	1.5 ug/L		0.080	1	06/06/12 16:01	06/15/12 15:29	7440-43-9	
Calcium	258000 ug/L		500	25	06/06/12 16:01	06/15/12 15:48	7440-70-2	M6
Chromium	ND ug/L		0.50	1	06/06/12 16:01	06/15/12 15:29	7440-47-3	
Cobalt	ND ug/L		0.50	1	06/06/12 16:01	06/15/12 15:29	7440-48-4	
Copper	1.7 ug/L		0.50	1	06/06/12 16:01	06/15/12 15:29	7440-50-8	
Iron	233 ug/L		50.0	1	06/06/12 16:01	06/15/12 15:29	7439-89-6	
Lead	2.4 ug/L		0.10	1	06/06/12 16:01	06/15/12 15:29	7439-92-1	
Magnesium	23800 ug/L		25.0	5	06/06/12 16:01	06/15/12 15:43	7439-95-4	
Manganese	39.9 ug/L		0.50	1	06/06/12 16:01	06/15/12 15:29	7439-96-5	
Molybdenum	6.2 ug/L		0.50	1	06/06/12 16:01	06/15/12 15:29	7439-98-7	
Nickel	ND ug/L		0.50	1	06/06/12 16:01	06/15/12 15:29	7440-02-0	
Potassium	1750 ug/L		20.0	1	06/06/12 16:01	06/15/12 15:29	7440-09-7	
Selenium	1.1 ug/L		0.50	1	06/06/12 16:01	06/15/12 15:29	7782-49-2	
Silica	12400 ug/L		268	5	06/06/12 16:01	06/15/12 15:43	7631-86-9	
Silver	ND ug/L		0.50	1	06/06/12 16:01	06/15/12 15:29	7440-22-4	
Sodium	9380 ug/L		50.0	1	06/06/12 16:01	06/15/12 15:29	7440-23-5	
Thallium	ND ug/L		0.10	1	06/06/12 16:01	06/15/12 15:29	7440-28-0	
Total Hardness by 2340B	744000 ug/L		1780	25	06/06/12 16:01	06/15/12 15:48		
Vanadium	0.18 ug/L		0.10	1	06/06/12 16:01	06/15/12 15:29	7440-62-2	
Zinc	36.5 ug/L		5.0	1	06/06/12 16:01	06/15/12 15:29	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	9.0 ug/L		4.0	1	06/07/12 10:46	06/11/12 16:43	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	06/07/12 10:46	06/11/12 16:43	7440-36-0	
Arsenic, Dissolved	ND ug/L		0.50	1	06/07/12 10:46	06/11/12 16:43	7440-38-2	
Barium, Dissolved	13.8 ug/L		0.30	1	06/07/12 10:46	06/11/12 16:43	7440-39-3	B
Beryllium, Dissolved	ND ug/L		0.20	1	06/07/12 10:46	06/11/12 16:43	7440-41-7	
Cadmium, Dissolved	1.4 ug/L		0.080	1	06/07/12 10:46	06/11/12 16:43	7440-43-9	
Calcium, Dissolved	252000 ug/L		400	20	06/07/12 10:46	06/11/12 01:43	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	06/07/12 10:46	06/11/12 16:43	7440-47-3	
Cobalt, Dissolved	ND ug/L		0.50	1	06/07/12 10:46	06/11/12 16:43	7440-48-4	
Copper, Dissolved	0.81 ug/L		0.50	1	06/07/12 10:46	06/11/12 16:43	7440-50-8	
Iron, Dissolved	ND ug/L		50.0	1	06/07/12 10:46	06/11/12 16:43	7439-89-6	
Lead, Dissolved	ND ug/L		0.10	1	06/07/12 10:46	06/11/12 16:43	7439-92-1	
Magnesium, Dissolved	23800 ug/L		100	20	06/07/12 10:46	06/11/12 01:43	7439-95-4	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: MW-2 DEEP 20120524	Lab ID: 60122217021	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	35.5	ug/L	0.50	1	06/07/12 10:46	06/11/12 16:43	7439-96-5	
Molybdenum, Dissolved	6.6	ug/L	0.50	1	06/07/12 10:46	06/11/12 16:43	7439-98-7	
Nickel, Dissolved	ND	ug/L	0.50	1	06/07/12 10:46	06/11/12 16:43	7440-02-0	
Potassium, Dissolved	1790	ug/L	20.0	1	06/07/12 10:46	06/11/12 16:43	7440-09-7	
Selenium, Dissolved	0.96	ug/L	0.50	1	06/07/12 10:46	06/11/12 16:43	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	06/07/12 10:46	06/11/12 16:43	7440-22-4	
Sodium, Dissolved	9720	ug/L	50.0	1	06/07/12 10:46	06/11/12 16:43	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	06/07/12 10:46	06/11/12 16:43	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	06/07/12 10:46	06/11/12 16:43	7440-62-2	
Zinc, Dissolved	29.8	ug/L	5.0	1	06/07/12 10:46	06/11/12 16:43	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	67.7	ug/L	50.0	1	06/04/12 18:30	06/07/12 14:54	7429-90-5	
Antimony, Dissolved	0.16J	ug/L	1.0	1	06/04/12 18:30	06/07/12 14:54	7440-36-0	
Arsenic, Dissolved	0.15J	ug/L	1.0	1	06/04/12 18:30	06/07/12 14:54	7440-38-2	
Barium, Dissolved	13.3	ug/L	1.0	1	06/04/12 18:30	06/07/12 14:54	7440-39-3	
Beryllium, Dissolved	0.10J	ug/L	0.50	1	06/04/12 18:30	06/07/12 14:54	7440-41-7	
Cadmium, Dissolved	1.3	ug/L	0.50	1	06/04/12 18:30	06/07/12 14:54	7440-43-9	
Chromium, Dissolved	0.15J	ug/L	1.0	1	06/04/12 18:30	06/07/12 14:54	7440-47-3	
Cobalt, Dissolved	ND	ug/L	1.0	1	06/04/12 18:30	06/07/12 14:54	7440-48-4	
Copper, Dissolved	1.9	ug/L	1.0	1	06/04/12 18:30	06/07/12 14:54	7440-50-8	
Iron, Dissolved	214	ug/L	50.0	1	06/04/12 18:30	06/07/12 14:54	7439-89-6	
Lead, Dissolved	3.6	ug/L	1.0	1	06/04/12 18:30	06/07/12 14:54	7439-92-1	
Manganese, Dissolved	40.5	ug/L	1.0	1	06/04/12 18:30	06/07/12 14:54	7439-96-5	
Molybdenum, Dissolved	5.9	ug/L	1.0	1	06/04/12 18:30	06/07/12 14:54	7439-98-7	
Nickel, Dissolved	ND	ug/L	5.0	5	06/04/12 18:30	06/07/12 15:55	7440-02-0	
Selenium, Dissolved	1.3	ug/L	1.0	1	06/04/12 18:30	06/07/12 14:54	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	06/04/12 18:30	06/07/12 14:54	7440-22-4	
Thallium, Dissolved	0.18J	ug/L	1.0	1	06/04/12 18:30	06/07/12 14:54	7440-28-0	
Vanadium, Dissolved	ND	ug/L	1.0	1	06/04/12 18:30	06/07/12 14:54	7440-62-2	
Zinc, Dissolved	37.8	ug/L	10.0	1	06/04/12 18:30	06/07/12 14:54	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	06/01/12 13:30	06/04/12 11:36	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	06/01/12 13:30	06/04/12 13:42	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	06/05/12 13:43	06/06/12 11:14	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	1320	umhos/cm	10.0	1			06/04/12 13:35	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	84.4	mg/L	6.0	1			06/07/12 00:00	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: MW-2 DEEP 20120524	Lab ID: 60122217021	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	0.066 PSU		0.010	1		06/07/12 00:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO ₃)	104 mg/L		20.0	1		06/05/12 13:30		
Alkalinity, Carbonate (CaCO ₃)	ND mg/L		20.0	1		06/05/12 13:30		
Alkalinity, Total as CaCO ₃	104 mg/L		20.0	1		06/05/12 13:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	1100 mg/L		5.0	1		05/31/12 16:50		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	17.0 mg/L		5.0	1		05/31/12 15:00		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND mg/L		0.050	1		05/31/12 05:46 18496-25-8		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	797 mg/L		50.0	50		06/07/12 23:06 14808-79-8		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	0.016 mg/L		0.0050	1		06/01/12 18:31 57-12-5		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND mg/L		1.0	1		06/12/12 11:21 7440-44-0		

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: MW-3 DEEP 20120524 Lab ID: 60122217022 Collected: 05/24/12 08:00 Received: 05/26/12 10:00 Matrix: Water

Comments: • The samples were received outside of required temperature range. Analysis was completed upon client approval.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	206000 ug/L		100	1	06/05/12 09:50	06/06/12 16:47	7440-70-2	
Magnesium, Dissolved	21800 ug/L		50.0	1	06/05/12 09:50	06/06/12 16:47	7439-95-4	
Potassium, Dissolved	2150 ug/L		500	1	06/05/12 09:50	06/06/12 16:47	7440-09-7	
Sodium, Dissolved	10200 ug/L		500	1	06/05/12 09:50	06/06/12 16:47	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	28.7 ug/L		4.0	1	06/06/12 16:01	06/15/12 16:16	7429-90-5	
Antimony	ND ug/L		0.50	1	06/06/12 16:01	06/15/12 16:16	7440-36-0	
Arsenic	0.78 ug/L		0.50	1	06/06/12 16:01	06/15/12 16:16	7440-38-2	
Barium	16.0 ug/L		0.30	1	06/06/12 16:01	06/15/12 16:16	7440-39-3	
Beryllium	ND ug/L		0.20	1	06/06/12 16:01	06/15/12 16:16	7440-41-7	
Cadmium	ND ug/L		0.080	1	06/06/12 16:01	06/15/12 16:16	7440-43-9	
Calcium	217000 ug/L		400	20	06/06/12 16:01	06/15/12 16:20	7440-70-2	
Chromium	ND ug/L		0.50	1	06/06/12 16:01	06/15/12 16:16	7440-47-3	
Cobalt	0.70 ug/L		0.50	1	06/06/12 16:01	06/15/12 16:16	7440-48-4	
Copper	0.71 ug/L		0.50	1	06/06/12 16:01	06/15/12 16:16	7440-50-8	
Iron	3400 ug/L		50.0	1	06/06/12 16:01	06/15/12 16:16	7439-89-6	
Lead	0.84 ug/L		0.10	1	06/06/12 16:01	06/15/12 16:16	7439-92-1	
Magnesium	22400 ug/L		5.0	1	06/06/12 16:01	06/15/12 16:16	7439-95-4	
Manganese	867 ug/L		10.0	20	06/06/12 16:01	06/15/12 16:20	7439-96-5	
Molybdenum	12.1 ug/L		0.50	1	06/06/12 16:01	06/15/12 16:16	7439-98-7	
Nickel	ND ug/L		0.50	1	06/06/12 16:01	06/15/12 16:16	7440-02-0	
Potassium	2080 ug/L		20.0	1	06/06/12 16:01	06/15/12 16:16	7440-09-7	
Selenium	ND ug/L		0.50	1	06/06/12 16:01	06/15/12 16:16	7782-49-2	
Silica	11500 ug/L		1070	20	06/06/12 16:01	06/15/12 16:20	7631-86-9	
Silver	ND ug/L		0.50	1	06/06/12 16:01	06/15/12 16:16	7440-22-4	
Sodium	10600 ug/L		50.0	1	06/06/12 16:01	06/15/12 16:16	7440-23-5	
Thallium	ND ug/L		0.10	1	06/06/12 16:01	06/15/12 16:16	7440-28-0	
Total Hardness by 2340B	635000 ug/L		1420	20	06/06/12 16:01	06/15/12 16:20		
Vanadium	ND ug/L		0.10	1	06/06/12 16:01	06/15/12 16:16	7440-62-2	
Zinc	65.7 ug/L		5.0	1	06/06/12 16:01	06/15/12 16:16	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	ND ug/L		4.0	1	06/07/12 10:46	06/11/12 02:11	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	06/07/12 10:46	06/11/12 02:11	7440-36-0	
Arsenic, Dissolved	ND ug/L		0.50	1	06/07/12 10:46	06/11/12 02:11	7440-38-2	
Barium, Dissolved	14.7 ug/L		0.30	1	06/07/12 10:46	06/11/12 02:11	7440-39-3	B
Beryllium, Dissolved	ND ug/L		0.20	1	06/07/12 10:46	06/11/12 02:11	7440-41-7	
Cadmium, Dissolved	ND ug/L		0.080	1	06/07/12 10:46	06/11/12 02:11	7440-43-9	
Calcium, Dissolved	223000 ug/L		400	20	06/07/12 10:46	06/11/12 02:16	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	06/07/12 10:46	06/11/12 02:11	7440-47-3	
Cobalt, Dissolved	0.69 ug/L		0.50	1	06/07/12 10:46	06/11/12 02:11	7440-48-4	
Copper, Dissolved	0.51 ug/L		0.50	1	06/07/12 10:46	06/11/12 02:11	7440-50-8	
Iron, Dissolved	924 ug/L		50.0	1	06/07/12 10:46	06/11/12 02:11	7439-89-6	
Lead, Dissolved	ND ug/L		0.10	1	06/07/12 10:46	06/11/12 02:11	7439-92-1	CH

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: MW-3 DEEP 20120524 Lab ID: 60122217022 Collected: 05/24/12 08:00 Received: 05/26/12 10:00 Matrix: Water

Comments: • The samples were received outside of required temperature range. Analysis was completed upon client approval.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Magnesium, Dissolved	22400 ug/L		5.0	1	06/07/12 10:46	06/11/12 02:11	7439-95-4	
Manganese, Dissolved	885 ug/L		10.0	20	06/07/12 10:46	06/11/12 02:16	7439-96-5	
Molybdenum, Dissolved	11.4 ug/L		0.50	1	06/07/12 10:46	06/11/12 02:11	7439-98-7	
Nickel, Dissolved	ND ug/L		0.50	1	06/07/12 10:46	06/11/12 02:11	7440-02-0	
Potassium, Dissolved	1930 ug/L		20.0	1	06/07/12 10:46	06/11/12 02:11	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	06/07/12 10:46	06/11/12 02:11	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	06/07/12 10:46	06/11/12 02:11	7440-22-4	
Sodium, Dissolved	9230 ug/L		50.0	1	06/07/12 10:46	06/11/12 02:11	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	06/07/12 10:46	06/11/12 02:11	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	06/07/12 10:46	06/11/12 02:11	7440-62-2	
Zinc, Dissolved	46.5 ug/L		5.0	1	06/07/12 10:46	06/11/12 02:11	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	ND ug/L		50.0	1	06/04/12 18:30	06/07/12 14:58	7429-90-5	
Antimony, Dissolved	0.10J ug/L		1.0	1	06/04/12 18:30	06/07/12 14:58	7440-36-0	
Arsenic, Dissolved	0.64J ug/L		1.0	1	06/04/12 18:30	06/07/12 14:58	7440-38-2	
Barium, Dissolved	13.7 ug/L		1.0	1	06/04/12 18:30	06/07/12 14:58	7440-39-3	
Beryllium, Dissolved	0.074J ug/L		0.50	1	06/04/12 18:30	06/07/12 14:58	7440-41-7	
Cadmium, Dissolved	ND ug/L		0.50	1	06/04/12 18:30	06/07/12 14:58	7440-43-9	
Chromium, Dissolved	0.18J ug/L		1.0	1	06/04/12 18:30	06/07/12 14:58	7440-47-3	
Cobalt, Dissolved	0.54J ug/L		1.0	1	06/04/12 18:30	06/07/12 14:58	7440-48-4	
Copper, Dissolved	0.84J ug/L		1.0	1	06/04/12 18:30	06/07/12 14:58	7440-50-8	
Iron, Dissolved	3270 ug/L		50.0	1	06/04/12 18:30	06/07/12 14:58	7439-89-6	
Lead, Dissolved	1.2 ug/L		1.0	1	06/04/12 18:30	06/07/12 14:58	7439-92-1	
Manganese, Dissolved	876 ug/L		1.0	1	06/04/12 18:30	06/07/12 14:58	7439-96-5	
Molybdenum, Dissolved	11.2 ug/L		1.0	1	06/04/12 18:30	06/07/12 14:58	7439-98-7	
Nickel, Dissolved	ND ug/L		5.0	5	06/04/12 18:30	06/07/12 16:07	7440-02-0	
Selenium, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/07/12 14:58	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	06/04/12 18:30	06/07/12 14:58	7440-22-4	
Thallium, Dissolved	0.14J ug/L		1.0	1	06/04/12 18:30	06/07/12 14:58	7440-28-0	
Vanadium, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/07/12 14:58	7440-62-2	
Zinc, Dissolved	63.1 ug/L		10.0	1	06/04/12 18:30	06/07/12 14:58	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 11:47	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 13:47	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/05/12 13:43	06/06/12 11:25	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	1230 umhos/cm		10.0	1			06/04/12 13:38	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: MW-3 DEEP 20120524 Lab ID: 60122217022 Collected: 05/24/12 08:00 Received: 05/26/12 10:00 Matrix: Water

Comments: • The samples were received outside of required temperature range. Analysis was completed upon client approval.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	786 mg/L		6.0	1		06/07/12 00:00		
Salinity (as seawater)	0.61 PSU		0.010	1		06/07/12 00:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO ₃)	90.0 mg/L		20.0	1		06/05/12 13:30		
Alkalinity, Carbonate (CaCO ₃)	ND mg/L		20.0	1		06/05/12 13:30		
Alkalinity, Total as CaCO ₃	90.0 mg/L		20.0	1		06/05/12 13:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	987 mg/L		5.0	1		05/31/12 16:50		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	10.0 mg/L		5.0	1		05/31/12 15:00		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND mg/L		0.050	1		05/31/12 05:47	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	735 mg/L		50.0	50		06/07/12 23:25	14808-79-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	0.0080 mg/L		0.0050	1		06/01/12 18:34	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND mg/L		1.0	1		06/12/12 11:34	7440-44-0	

ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: MW-4 SHALLOW 20120523 Lab ID: 60122217023 Collected: 05/23/12 08:00 Received: 05/26/12 10:00 Matrix: Water

Comments: • The samples were received outside of required temperature range. Analysis was completed upon client approval.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	220000 ug/L		100	1	06/05/12 09:50	06/06/12 16:49	7440-70-2	
Magnesium, Dissolved	26000 ug/L		50.0	1	06/05/12 09:50	06/06/12 16:49	7439-95-4	
Potassium, Dissolved	4140 ug/L		500	1	06/05/12 09:50	06/06/12 16:49	7440-09-7	
Sodium, Dissolved	6070 ug/L		500	1	06/05/12 09:50	06/06/12 16:49	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	15600 ug/L		4.0	1	06/06/12 16:01	06/15/12 16:25	7429-90-5	
Antimony	ND ug/L		0.50	1	06/06/12 16:01	06/15/12 16:25	7440-36-0	
Arsenic	11.0 ug/L		0.50	1	06/06/12 16:01	06/15/12 16:25	7440-38-2	
Barium	284 ug/L		0.30	1	06/06/12 16:01	06/15/12 16:25	7440-39-3	
Beryllium	1.4 ug/L		0.20	1	06/06/12 16:01	06/15/12 16:25	7440-41-7	
Cadmium	1.8 ug/L		0.080	1	06/06/12 16:01	06/15/12 16:25	7440-43-9	
Calcium	248000 ug/L		400	20	06/06/12 16:01	06/15/12 16:30	7440-70-2	
Chromium	14.9 ug/L		0.50	1	06/06/12 16:01	06/15/12 16:25	7440-47-3	
Cobalt	9.2 ug/L		0.50	1	06/06/12 16:01	06/15/12 16:25	7440-48-4	
Copper	76.3 ug/L		0.50	1	06/06/12 16:01	06/15/12 16:25	7440-50-8	
Iron	20400 ug/L		50.0	1	06/06/12 16:01	06/15/12 16:25	7439-89-6	
Lead	144 ug/L		0.10	1	06/06/12 16:01	06/15/12 16:25	7439-92-1	
Magnesium	31300 ug/L		100	20	06/06/12 16:01	06/15/12 16:30	7439-95-4	
Manganese	777 ug/L		10.0	20	06/06/12 16:01	06/15/12 16:30	7439-96-5	
Molybdenum	4.0 ug/L		0.50	1	06/06/12 16:01	06/15/12 16:25	7439-98-7	
Nickel	13.3 ug/L		0.50	1	06/06/12 16:01	06/15/12 16:25	7440-02-0	
Potassium	6710 ug/L		20.0	1	06/06/12 16:01	06/15/12 16:25	7440-09-7	
Selenium	29.4 ug/L		0.50	1	06/06/12 16:01	06/15/12 16:25	7782-49-2	
Silica	73200 ug/L		1070	20	06/06/12 16:01	06/15/12 16:30	7631-86-9	
Silver	1.9 ug/L		0.50	1	06/06/12 16:01	06/15/12 16:25	7440-22-4	
Sodium	6610 ug/L		50.0	1	06/06/12 16:01	06/15/12 16:25	7440-23-5	
Thallium	0.35 ug/L		0.10	1	06/06/12 16:01	06/15/12 16:25	7440-28-0	
Total Hardness by 2340B	748000 ug/L		1420	20	06/06/12 16:01	06/15/12 16:30		
Vanadium	21.5 ug/L		0.10	1	06/06/12 16:01	06/15/12 16:25	7440-62-2	
Zinc	412 ug/L		5.0	1	06/06/12 16:01	06/15/12 16:25	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	134 ug/L		4.0	1	06/07/12 10:46	06/11/12 02:20	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	06/07/12 10:46	06/11/12 02:20	7440-36-0	
Arsenic, Dissolved	ND ug/L		0.50	1	06/07/12 10:46	06/11/12 02:20	7440-38-2	
Barium, Dissolved	82.2 ug/L		0.30	1	06/07/12 10:46	06/11/12 02:20	7440-39-3	B
Beryllium, Dissolved	ND ug/L		0.20	1	06/07/12 10:46	06/11/12 02:20	7440-41-7	
Cadmium, Dissolved	1.1 ug/L		0.080	1	06/07/12 10:46	06/11/12 02:20	7440-43-9	
Calcium, Dissolved	245000 ug/L		400	20	06/07/12 10:46	06/11/12 02:25	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	06/07/12 10:46	06/11/12 02:20	7440-47-3	
Cobalt, Dissolved	0.70 ug/L		0.50	1	06/07/12 10:46	06/11/12 02:20	7440-48-4	
Copper, Dissolved	4.8 ug/L		0.50	1	06/07/12 10:46	06/11/12 02:20	7440-50-8	
Iron, Dissolved	162 ug/L		50.0	1	06/07/12 10:46	06/11/12 02:20	7439-89-6	
Lead, Dissolved	2.2 ug/L		0.50	5	06/07/12 10:46	06/11/12 16:48	7439-92-1	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: MW-4 SHALLOW 20120523 Lab ID: 60122217023 Collected: 05/23/12 08:00 Received: 05/26/12 10:00 Matrix: Water

Comments: • The samples were received outside of required temperature range. Analysis was completed upon client approval.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Magnesium, Dissolved	33000 ug/L		25.0	5	06/07/12 10:46	06/11/12 16:48	7439-95-4	
Manganese, Dissolved	220 ug/L		0.50	1	06/07/12 10:46	06/11/12 02:20	7439-96-5	
Molybdenum, Dissolved	1.8 ug/L		0.50	1	06/07/12 10:46	06/11/12 02:20	7439-98-7	
Nickel, Dissolved	4.2 ug/L		0.50	1	06/07/12 10:46	06/11/12 02:20	7440-02-0	
Potassium, Dissolved	3440 ug/L		20.0	1	06/07/12 10:46	06/11/12 02:20	7440-09-7	
Selenium, Dissolved	25.6 ug/L		0.50	1	06/07/12 10:46	06/11/12 02:20	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	06/07/12 10:46	06/11/12 02:20	7440-22-4	
Sodium, Dissolved	5860 ug/L		50.0	1	06/07/12 10:46	06/11/12 02:20	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	06/07/12 10:46	06/11/12 02:20	7440-28-0	
Vanadium, Dissolved	0.29 ug/L		0.10	1	06/07/12 10:46	06/11/12 02:20	7440-62-2	
Zinc, Dissolved	124 ug/L		5.0	1	06/07/12 10:46	06/11/12 02:20	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	5640 ug/L		50.0	1	06/04/12 18:30	06/07/12 16:11	7429-90-5	
Antimony, Dissolved	0.24J ug/L		1.0	1	06/04/12 18:30	06/07/12 15:02	7440-36-0	
Arsenic, Dissolved	4.2 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:02	7440-38-2	
Barium, Dissolved	91.9 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:02	7440-39-3	
Beryllium, Dissolved	1.4 ug/L		0.50	1	06/04/12 18:30	06/07/12 16:11	7440-41-7	
Cadmium, Dissolved	2.1 ug/L		0.50	1	06/04/12 18:30	06/07/12 15:02	7440-43-9	
Chromium, Dissolved	7.7 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:02	7440-47-3	
Cobalt, Dissolved	9.4 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:02	7440-48-4	
Copper, Dissolved	73.3 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:02	7440-50-8	
Iron, Dissolved	8600 ug/L		50.0	1	06/04/12 18:30	06/07/12 15:02	7439-89-6	
Lead, Dissolved	179 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:02	7439-92-1	
Manganese, Dissolved	898 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:02	7439-96-5	
Molybdenum, Dissolved	0.92J ug/L		1.0	1	06/04/12 18:30	06/07/12 15:02	7439-98-7	
Nickel, Dissolved	6.0 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:02	7440-02-0	
Selenium, Dissolved	23.7 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:02	7782-49-2	
Silver, Dissolved	0.49J ug/L		0.50	1	06/04/12 18:30	06/07/12 15:02	7440-22-4	
Thallium, Dissolved	0.22J ug/L		1.0	1	06/04/12 18:30	06/07/12 15:02	7440-28-0	
Vanadium, Dissolved	9.1 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:02	7440-62-2	
Zinc, Dissolved	401 ug/L		10.0	1	06/04/12 18:30	06/07/12 15:02	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 11:54	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 13:53	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/05/12 13:43	06/06/12 11:27	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	1270 umhos/cm		10.0	1			06/04/12 13:40	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: MW-4 SHALLOW 20120523 Lab ID: 60122217023 Collected: 05/23/12 08:00 Received: 05/26/12 10:00 Matrix: Water

Comments: • The samples were received outside of required temperature range. Analysis was completed upon client approval.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	815 mg/L		6.0	1		06/07/12 00:00		
Salinity (as seawater)	0.63 PSU		0.010	1		06/07/12 00:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO ₃)	296 mg/L		20.0	1		06/04/12 14:15		
Alkalinity, Carbonate (CaCO ₃)	ND mg/L		20.0	1		06/04/12 14:15		
Alkalinity, Total as CaCO ₃	296 mg/L		20.0	1		06/04/12 14:15		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	919 mg/L		5.0	1		05/31/12 16:54		H1
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	620 mg/L		5.0	1		05/31/12 10:38		H1
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND mg/L		0.050	1		05/31/12 07:40	18496-25-8	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	493 mg/L		50.0	50		06/07/12 23:43	14808-79-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND mg/L		0.0050	1		06/01/12 18:09	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	1.5 mg/L		1.0	1		06/12/12 11:48	7440-44-0	

ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: MW-4 DEEP 20120523 Lab ID: 60122217024 Collected: 05/24/12 08:00 Received: 05/26/12 10:00 Matrix: Water

Comments: • The samples were received outside of required temperature range. Analysis was completed upon client approval.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	255000 ug/L		100	1	06/05/12 09:50	06/06/12 16:51	7440-70-2	
Magnesium, Dissolved	31400 ug/L		50.0	1	06/05/12 09:50	06/06/12 16:51	7439-95-4	
Potassium, Dissolved	2290 ug/L		500	1	06/05/12 09:50	06/06/12 16:51	7440-09-7	
Sodium, Dissolved	5030 ug/L		500	1	06/05/12 09:50	06/06/12 16:51	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	39.0 ug/L		4.0	1	06/06/12 16:01	06/15/12 16:34	7429-90-5	
Antimony	ND ug/L		0.50	1	06/06/12 16:01	06/15/12 16:34	7440-36-0	
Arsenic	ND ug/L		0.50	1	06/06/12 16:01	06/15/12 16:34	7440-38-2	
Barium	16.5 ug/L		0.30	1	06/06/12 16:01	06/15/12 16:34	7440-39-3	
Beryllium	ND ug/L		0.20	1	06/06/12 16:01	06/15/12 16:34	7440-41-7	
Cadmium	2.3 ug/L		0.080	1	06/06/12 16:01	06/15/12 16:34	7440-43-9	
Calcium	271000 ug/L		400	20	06/06/12 16:01	06/15/12 16:39	7440-70-2	
Chromium	ND ug/L		0.50	1	06/06/12 16:01	06/15/12 16:34	7440-47-3	
Cobalt	ND ug/L		0.50	1	06/06/12 16:01	06/15/12 16:34	7440-48-4	
Copper	3.6 ug/L		0.50	1	06/06/12 16:01	06/15/12 16:34	7440-50-8	
Iron	ND ug/L		50.0	1	06/06/12 16:01	06/15/12 16:34	7439-89-6	
Lead	ND ug/L		0.10	1	06/06/12 16:01	06/15/12 16:34	7439-92-1	
Magnesium	31600 ug/L		100	20	06/06/12 16:01	06/15/12 16:39	7439-95-4	
Manganese	19.7 ug/L		0.50	1	06/06/12 16:01	06/15/12 16:34	7439-96-5	
Molybdenum	1.9 ug/L		0.50	1	06/06/12 16:01	06/15/12 16:34	7439-98-7	
Nickel	0.85 ug/L		0.50	1	06/06/12 16:01	06/15/12 16:34	7440-02-0	
Potassium	2140 ug/L		20.0	1	06/06/12 16:01	06/15/12 16:34	7440-09-7	
Selenium	56.2 ug/L		0.50	1	06/06/12 16:01	06/15/12 16:34	7782-49-2	
Silica	14000 ug/L		1070	20	06/06/12 16:01	06/15/12 16:39	7631-86-9	
Silver	ND ug/L		0.50	1	06/06/12 16:01	06/15/12 16:34	7440-22-4	
Sodium	5140 ug/L		50.0	1	06/06/12 16:01	06/15/12 16:34	7440-23-5	
Thallium	ND ug/L		0.10	1	06/06/12 16:01	06/15/12 16:34	7440-28-0	
Total Hardness by 2340B	807000 ug/L		1420	20	06/06/12 16:01	06/15/12 16:39		
Vanadium	ND ug/L		0.10	1	06/06/12 16:01	06/15/12 16:34	7440-62-2	
Zinc	362 ug/L		5.0	1	06/06/12 16:01	06/15/12 16:34	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	253 ug/L		4.0	1	06/07/12 10:46	06/11/12 02:30	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	06/07/12 10:46	06/11/12 02:30	7440-36-0	
Arsenic, Dissolved	0.54 ug/L		0.50	1	06/07/12 10:46	06/11/12 02:30	7440-38-2	
Barium, Dissolved	20.1 ug/L		0.30	1	06/07/12 10:46	06/11/12 02:30	7440-39-3	B
Beryllium, Dissolved	ND ug/L		0.20	1	06/07/12 10:46	06/11/12 02:30	7440-41-7	
Cadmium, Dissolved	2.5 ug/L		0.080	1	06/07/12 10:46	06/11/12 02:30	7440-43-9	
Calcium, Dissolved	275000 ug/L		400	20	06/07/12 10:46	06/11/12 02:34	7440-70-2	
Chromium, Dissolved	0.54 ug/L		0.50	1	06/07/12 10:46	06/11/12 02:30	7440-47-3	
Cobalt, Dissolved	ND ug/L		0.50	1	06/07/12 10:46	06/11/12 02:30	7440-48-4	
Copper, Dissolved	7.7 ug/L		0.50	1	06/07/12 10:46	06/11/12 02:30	7440-50-8	
Iron, Dissolved	661 ug/L		50.0	1	06/07/12 10:46	06/11/12 02:30	7439-89-6	
Lead, Dissolved	4.8 ug/L		0.50	5	06/07/12 10:46	06/11/12 16:52	7439-92-1	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: MW-4 DEEP 20120523 Lab ID: 60122217024 Collected: 05/24/12 08:00 Received: 05/26/12 10:00 Matrix: Water

Comments: • The samples were received outside of required temperature range. Analysis was completed upon client approval.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Magnesium, Dissolved	36000 ug/L		25.0	5	06/07/12 10:46	06/11/12 16:52	7439-95-4	
Manganese, Dissolved	72.3 ug/L		0.50	1	06/07/12 10:46	06/11/12 02:30	7439-96-5	
Molybdenum, Dissolved	2.0 ug/L		0.50	1	06/07/12 10:46	06/11/12 02:30	7439-98-7	
Nickel, Dissolved	1.0 ug/L		0.50	1	06/07/12 10:46	06/11/12 02:30	7440-02-0	
Potassium, Dissolved	2080 ug/L		20.0	1	06/07/12 10:46	06/11/12 02:30	7440-09-7	
Selenium, Dissolved	51.7 ug/L		0.50	1	06/07/12 10:46	06/11/12 02:30	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	06/07/12 10:46	06/11/12 02:30	7440-22-4	
Sodium, Dissolved	4680 ug/L		50.0	1	06/07/12 10:46	06/11/12 02:30	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	06/07/12 10:46	06/11/12 02:30	7440-28-0	
Vanadium, Dissolved	0.51 ug/L		0.10	1	06/07/12 10:46	06/11/12 02:30	7440-62-2	
Zinc, Dissolved	372 ug/L		5.0	1	06/07/12 10:46	06/11/12 02:30	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	156 ug/L		50.0	1	06/04/12 18:30	06/07/12 15:06	7429-90-5	
Antimony, Dissolved	0.14J ug/L		1.0	1	06/04/12 18:30	06/07/12 15:06	7440-36-0	
Arsenic, Dissolved	1.7 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:06	7440-38-2	
Barium, Dissolved	17.3 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:06	7440-39-3	
Beryllium, Dissolved	0.18J ug/L		0.50	1	06/04/12 18:30	06/07/12 15:06	7440-41-7	
Cadmium, Dissolved	2.4 ug/L		0.50	1	06/04/12 18:30	06/07/12 15:06	7440-43-9	
Chromium, Dissolved	0.50J ug/L		1.0	1	06/04/12 18:30	06/07/12 15:06	7440-47-3	
Cobalt, Dissolved	0.26J ug/L		1.0	1	06/04/12 18:30	06/07/12 15:06	7440-48-4	
Copper, Dissolved	6.6 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:06	7440-50-8	
Iron, Dissolved	433 ug/L		50.0	1	06/04/12 18:30	06/07/12 15:06	7439-89-6	
Lead, Dissolved	3.9 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:06	7439-92-1	
Manganese, Dissolved	58.8 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:06	7439-96-5	
Molybdenum, Dissolved	1.8 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:06	7439-98-7	
Nickel, Dissolved	ND ug/L		2.0	2	06/04/12 18:30	06/08/12 13:34	7440-02-0	
Selenium, Dissolved	49.8 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:06	7782-49-2	
Silver, Dissolved	0.042J ug/L		0.50	1	06/04/12 18:30	06/07/12 15:06	7440-22-4	
Thallium, Dissolved	0.12J ug/L		1.0	1	06/04/12 18:30	06/07/12 15:06	7440-28-0	
Vanadium, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/07/12 15:06	7440-62-2	
Zinc, Dissolved	364 ug/L		10.0	1	06/04/12 18:30	06/07/12 15:06	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 11:56	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 14:02	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/05/12 13:43	06/06/12 11:29	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	1430 umhos/cm		10.0	1			06/04/12 13:41	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: MW-4 DEEP 20120523 Lab ID: 60122217024 Collected: 05/24/12 08:00 Received: 05/26/12 10:00 Matrix: Water

Comments: • The samples were received outside of required temperature range. Analysis was completed upon client approval.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	913 mg/L		6.0	1		06/07/12 00:00		
Salinity (as seawater)	0.71 PSU		0.010	1		06/07/12 00:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO ₃)	362 mg/L		20.0	1		06/05/12 13:30		
Alkalinity, Carbonate (CaCO ₃)	ND mg/L		20.0	1		06/05/12 13:30		
Alkalinity, Total as CaCO ₃	362 mg/L		20.0	1		06/05/12 13:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	1090 mg/L		5.0	1		05/31/12 16:51		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	10.0 mg/L		5.0	1		05/31/12 15:00		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND mg/L		0.050	1		05/31/12 05:47	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	595 mg/L		50.0	50		06/08/12 00:19	14808-79-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND mg/L		0.0050	1		06/01/12 18:34	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND mg/L		1.0	1		06/12/12 12:01	7440-44-0	

ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: MW-5 SHALLOW 20120524	Lab ID: 60122217025	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	414000 ug/L		100	1	06/05/12 09:50	06/06/12 16:53	7440-70-2	
Magnesium, Dissolved	73000 ug/L		50.0	1	06/05/12 09:50	06/06/12 16:53	7439-95-4	
Potassium, Dissolved	2190 ug/L		500	1	06/05/12 09:50	06/06/12 16:53	7440-09-7	
Sodium, Dissolved	3780 ug/L		500	1	06/05/12 09:50	06/06/12 16:53	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	12200 ug/L		4.0	1	06/06/12 16:01	06/15/12 14:56	7429-90-5	
Antimony	ND ug/L		0.50	1	06/06/12 16:01	06/15/12 14:56	7440-36-0	
Arsenic	61.2 ug/L		0.50	1	06/06/12 16:01	06/15/12 14:56	7440-38-2	
Barium	49.5 ug/L		0.30	1	06/06/12 16:01	06/15/12 14:56	7440-39-3	
Beryllium	4.8 ug/L		0.20	1	06/06/12 16:01	06/15/12 14:56	7440-41-7	
Cadmium	124 ug/L		0.080	1	06/06/12 16:01	06/15/12 14:56	7440-43-9	
Calcium	485000 ug/L		2000	100	06/06/12 16:01	06/15/12 15:06	7440-70-2	
Chromium	1.5 ug/L		0.50	1	06/06/12 16:01	06/15/12 14:56	7440-47-3	
Cobalt	73.1 ug/L		0.50	1	06/06/12 16:01	06/15/12 14:56	7440-48-4	
Copper	244 ug/L		0.50	1	06/06/12 16:01	06/15/12 14:56	7440-50-8	
Iron	209000 ug/L		500	10	06/06/12 16:01	06/15/12 15:01	7439-89-6	
Lead	219 ug/L		0.10	1	06/06/12 16:01	06/15/12 14:56	7439-92-1	
Magnesium	78500 ug/L		50.0	10	06/06/12 16:01	06/15/12 15:01	7439-95-4	
Manganese	16100 ug/L		50.0	100	06/06/12 16:01	06/15/12 15:06	7439-96-5	
Molybdenum	ND ug/L		0.50	1	06/06/12 16:01	06/15/12 14:56	7439-98-7	
Nickel	110 ug/L		0.50	1	06/06/12 16:01	06/15/12 14:56	7440-02-0	
Potassium	2290 ug/L		20.0	1	06/06/12 16:01	06/15/12 14:56	7440-09-7	
Selenium	2.9 ug/L		0.50	1	06/06/12 16:01	06/15/12 14:56	7782-49-2	
Silica	90500 ug/L		5350	100	06/06/12 16:01	06/15/12 15:06	7631-86-9	
Silver	ND ug/L		0.50	1	06/06/12 16:01	06/15/12 14:56	7440-22-4	
Sodium	3890 ug/L		50.0	1	06/06/12 16:01	06/15/12 14:56	7440-23-5	
Thallium	0.34 ug/L		0.10	1	06/06/12 16:01	06/15/12 14:56	7440-28-0	
Total Hardness by 2340B	1530000 ug/L		7100	100	06/06/12 16:01	06/15/12 15:06		
Vanadium	2.7 ug/L		0.10	1	06/06/12 16:01	06/15/12 14:56	7440-62-2	
Zinc	35400 ug/L		500	100	06/06/12 16:01	06/15/12 15:06	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	11700 ug/L		4.0	1	06/07/12 10:46	06/11/12 01:47	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	06/07/12 10:46	06/11/12 01:47	7440-36-0	
Arsenic, Dissolved	57.7 ug/L		0.50	1	06/07/12 10:46	06/11/12 01:47	7440-38-2	
Barium, Dissolved	20.2 ug/L		0.30	1	06/07/12 10:46	06/11/12 01:47	7440-39-3	B
Beryllium, Dissolved	4.0 ug/L		0.20	1	06/07/12 10:46	06/11/12 01:47	7440-41-7	
Cadmium, Dissolved	125 ug/L		0.080	1	06/07/12 10:46	06/11/12 01:47	7440-43-9	
Calcium, Dissolved	504000 ug/L		2000	100	06/07/12 10:46	06/11/12 01:57	7440-70-2	
Chromium, Dissolved	0.79 ug/L		0.50	1	06/07/12 10:46	06/11/12 01:47	7440-47-3	
Cobalt, Dissolved	74.2 ug/L		0.50	1	06/07/12 10:46	06/11/12 01:47	7440-48-4	
Copper, Dissolved	229 ug/L		0.50	1	06/07/12 10:46	06/11/12 01:47	7440-50-8	
Iron, Dissolved	210000 ug/L		500	10	06/07/12 10:46	06/11/12 01:52	7439-89-6	
Lead, Dissolved	323 ug/L		1.0	10	06/07/12 10:46	06/11/12 16:57	7439-92-1	
Magnesium, Dissolved	122000 ug/L		50.0	10	06/07/12 10:46	06/11/12 16:57	7439-95-4	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: MW-5 SHALLOW 20120524	Lab ID: 60122217025	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	16400 ug/L		50.0	100	06/07/12 10:46	06/11/12 01:57	7439-96-5	
Molybdenum, Dissolved	ND ug/L		0.50	1	06/07/12 10:46	06/11/12 01:47	7439-98-7	
Nickel, Dissolved	112 ug/L		0.50	1	06/07/12 10:46	06/11/12 01:47	7440-02-0	
Potassium, Dissolved	2080 ug/L		20.0	1	06/07/12 10:46	06/11/12 01:47	7440-09-7	
Selenium, Dissolved	2.6 ug/L		0.50	1	06/07/12 10:46	06/11/12 01:47	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	06/07/12 10:46	06/11/12 01:47	7440-22-4	
Sodium, Dissolved	3620 ug/L		50.0	1	06/07/12 10:46	06/11/12 01:47	7440-23-5	
Thallium, Dissolved	0.30 ug/L		0.10	1	06/07/12 10:46	06/11/12 01:47	7440-28-0	
Vanadium, Dissolved	0.86 ug/L		0.10	1	06/07/12 10:46	06/11/12 01:47	7440-62-2	
Zinc, Dissolved	36200 ug/L		500	100	06/07/12 10:46	06/11/12 01:57	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	10900 ug/L		50.0	1	06/04/12 18:30	06/07/12 15:18	7429-90-5	
Antimony, Dissolved	0.14J ug/L		1.0	1	06/04/12 18:30	06/07/12 15:18	7440-36-0	
Arsenic, Dissolved	56.7 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:18	7440-38-2	
Barium, Dissolved	24.3 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:18	7440-39-3	
Beryllium, Dissolved	4.5 ug/L		0.50	1	06/04/12 18:30	06/07/12 15:18	7440-41-7	
Cadmium, Dissolved	125 ug/L		0.50	1	06/04/12 18:30	06/07/12 15:18	7440-43-9	
Chromium, Dissolved	2.4 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:18	7440-47-3	
Cobalt, Dissolved	70.1 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:18	7440-48-4	
Copper, Dissolved	251 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:18	7440-50-8	
Iron, Dissolved	203000 ug/L		1250	25	06/04/12 18:30	06/07/12 16:15	7439-89-6	
Lead, Dissolved	268 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:18	7439-92-1	
Manganese, Dissolved	15600 ug/L		25.0	25	06/04/12 18:30	06/07/12 16:15	7439-96-5	
Molybdenum, Dissolved	0.43J ug/L		1.0	1	06/04/12 18:30	06/07/12 15:18	7439-98-7	
Nickel, Dissolved	104 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:18	7440-02-0	
Selenium, Dissolved	2.9 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:18	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	06/04/12 18:30	06/07/12 15:18	7440-22-4	
Thallium, Dissolved	0.49J ug/L		1.0	1	06/04/12 18:30	06/07/12 15:18	7440-28-0	
Vanadium, Dissolved	2.1 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:18	7440-62-2	
Zinc, Dissolved	34800 ug/L		250	25	06/04/12 18:30	06/07/12 16:15	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 11:59	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 14:07	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/05/12 13:43	06/06/12 11:31	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	3520 umhos/cm		10.0	1			06/04/12 15:04	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	2250 mg/L		6.0	1			06/07/12 00:00	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: MW-5 SHALLOW 20120524	Lab ID: 60122217025	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	1.8	PSU	0.010	1		06/07/12 00:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO ₃)	ND	mg/L	20.0	1		06/05/12 13:30		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		06/05/12 13:30		
Alkalinity, Total as CaCO ₃	ND	mg/L	20.0	1		06/05/12 13:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	2920	mg/L	5.0	1		05/31/12 16:51		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	230	mg/L	5.0	1		05/31/12 15:01		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		05/31/12 05:47	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	2360	mg/L	200	200		06/08/12 01:14	14808-79-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		06/01/12 18:35	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		06/12/12 12:15	7440-44-0	

ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: MW-5 DEEP 20120524	Lab ID: 60122217026	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	351000 ug/L		100	1	06/05/12 09:50	06/06/12 16:55	7440-70-2	
Magnesium, Dissolved	75100 ug/L		50.0	1	06/05/12 09:50	06/06/12 16:55	7439-95-4	
Potassium, Dissolved	11000 ug/L		500	1	06/05/12 09:50	06/06/12 16:55	7440-09-7	
Sodium, Dissolved	7440 ug/L		500	1	06/05/12 09:50	06/06/12 16:55	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	1270 ug/L		4.0	1	06/06/12 16:01	06/15/12 16:44	7429-90-5	
Antimony	ND ug/L		0.50	1	06/06/12 16:01	06/15/12 16:44	7440-36-0	
Arsenic	227 ug/L		0.50	1	06/06/12 16:01	06/15/12 16:44	7440-38-2	
Barium	14.4 ug/L		0.30	1	06/06/12 16:01	06/15/12 16:44	7440-39-3	
Beryllium	3.0 ug/L		0.20	1	06/06/12 16:01	06/15/12 16:44	7440-41-7	
Cadmium	0.19 ug/L		0.080	1	06/06/12 16:01	06/15/12 16:44	7440-43-9	
Calcium	371000 ug/L		400	20	06/06/12 16:01	06/15/12 16:48	7440-70-2	
Chromium	ND ug/L		0.50	1	06/06/12 16:01	06/15/12 16:44	7440-47-3	
Cobalt	16.0 ug/L		0.50	1	06/06/12 16:01	06/15/12 16:44	7440-48-4	
Copper	3.0 ug/L		0.50	1	06/06/12 16:01	06/15/12 16:44	7440-50-8	
Iron	127000 ug/L		1000	20	06/06/12 16:01	06/15/12 16:48	7439-89-6	
Lead	5.6 ug/L		0.10	1	06/06/12 16:01	06/15/12 16:44	7439-92-1	
Magnesium	71200 ug/L		100	20	06/06/12 16:01	06/15/12 16:48	7439-95-4	
Manganese	16700 ug/L		50.0	100	06/06/12 16:01	06/19/12 15:53	7439-96-5	
Molybdenum	14.2 ug/L		0.50	1	06/06/12 16:01	06/15/12 16:44	7439-98-7	
Nickel	15.6 ug/L		0.50	1	06/06/12 16:01	06/15/12 16:44	7440-02-0	
Potassium	10400 ug/L		20.0	1	06/06/12 16:01	06/15/12 16:44	7440-09-7	
Selenium	ND ug/L		0.50	1	06/06/12 16:01	06/15/12 16:44	7782-49-2	
Silica	25200 ug/L		1070	20	06/06/12 16:01	06/15/12 16:48	7631-86-9	
Silver	ND ug/L		0.50	1	06/06/12 16:01	06/15/12 16:44	7440-22-4	
Sodium	7110 ug/L		50.0	1	06/06/12 16:01	06/15/12 16:44	7440-23-5	
Thallium	ND ug/L		0.10	1	06/06/12 16:01	06/15/12 16:44	7440-28-0	
Total Hardness by 2340B	1220000 ug/L		1420	20	06/06/12 16:01	06/15/12 16:48		
Vanadium	0.12 ug/L		0.10	1	06/06/12 16:01	06/15/12 16:44	7440-62-2	
Zinc	18000 ug/L		500	100	06/06/12 16:01	06/19/12 15:53	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	1230 ug/L		4.0	1	06/07/12 10:46	06/11/12 16:33	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	06/07/12 10:46	06/11/12 16:33	7440-36-0	
Arsenic, Dissolved	213 ug/L		0.50	1	06/07/12 10:46	06/11/12 16:33	7440-38-2	
Barium, Dissolved	13.3 ug/L		0.30	1	06/07/12 10:46	06/11/12 16:33	7440-39-3	B
Beryllium, Dissolved	2.8 ug/L		0.20	1	06/07/12 10:46	06/11/12 16:33	7440-41-7	
Cadmium, Dissolved	ND ug/L		0.080	1	06/07/12 10:46	06/11/12 16:33	7440-43-9	
Calcium, Dissolved	370000 ug/L		400	20	06/07/12 10:46	06/11/12 02:44	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	06/07/12 10:46	06/11/12 16:33	7440-47-3	
Cobalt, Dissolved	16.1 ug/L		0.50	1	06/07/12 10:46	06/11/12 16:33	7440-48-4	
Copper, Dissolved	0.64 ug/L		0.50	1	06/07/12 10:46	06/11/12 16:33	7440-50-8	
Iron, Dissolved	128000 ug/L		1000	20	06/07/12 10:46	06/11/12 02:44	7439-89-6	
Lead, Dissolved	ND ug/L		0.10	1	06/07/12 10:46	06/11/12 16:33	7439-92-1	
Magnesium, Dissolved	74800 ug/L		100	20	06/07/12 10:46	06/11/12 02:44	7439-95-4	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: MW-5 DEEP 20120524	Lab ID: 60122217026	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	16200 ug/L		50.0	100	06/07/12 10:46	06/11/12 16:38	7439-96-5	
Molybdenum, Dissolved	14.8 ug/L		0.50	1	06/07/12 10:46	06/11/12 16:33	7439-98-7	
Nickel, Dissolved	16.0 ug/L		0.50	1	06/07/12 10:46	06/11/12 16:33	7440-02-0	
Potassium, Dissolved	10800 ug/L		20.0	1	06/07/12 10:46	06/11/12 16:33	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	06/07/12 10:46	06/11/12 16:33	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	06/07/12 10:46	06/11/12 16:33	7440-22-4	
Sodium, Dissolved	7380 ug/L		50.0	1	06/07/12 10:46	06/11/12 16:33	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	06/07/12 10:46	06/11/12 16:33	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	06/07/12 10:46	06/11/12 16:33	7440-62-2	
Zinc, Dissolved	17900 ug/L		500	100	06/07/12 10:46	06/11/12 16:38	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	1170 ug/L		50.0	1	06/04/12 18:30	06/07/12 15:23	7429-90-5	
Antimony, Dissolved	0.10J ug/L		1.0	1	06/04/12 18:30	06/07/12 15:23	7440-36-0	
Arsenic, Dissolved	208 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:23	7440-38-2	
Barium, Dissolved	12.6 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:23	7440-39-3	
Beryllium, Dissolved	3.0 ug/L		0.50	1	06/04/12 18:30	06/07/12 15:23	7440-41-7	
Cadmium, Dissolved	ND ug/L		0.50	1	06/04/12 18:30	06/07/12 15:23	7440-43-9	
Chromium, Dissolved	0.23J ug/L		1.0	1	06/04/12 18:30	06/07/12 15:23	7440-47-3	
Cobalt, Dissolved	14.8 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:23	7440-48-4	
Copper, Dissolved	3.0 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:23	7440-50-8	
Iron, Dissolved	130000 ug/L		1000	20	06/04/12 18:30	06/07/12 16:20	7439-89-6	
Lead, Dissolved	6.0 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:23	7439-92-1	
Manganese, Dissolved	15200 ug/L		20.0	20	06/04/12 18:30	06/07/12 16:20	7439-96-5	
Molybdenum, Dissolved	13.6 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:23	7439-98-7	
Nickel, Dissolved	12.0 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:23	7440-02-0	
Selenium, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/07/12 15:23	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	06/04/12 18:30	06/07/12 15:23	7440-22-4	
Thallium, Dissolved	0.19J ug/L		1.0	1	06/04/12 18:30	06/07/12 15:23	7440-28-0	
Vanadium, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/07/12 15:23	7440-62-2	
Zinc, Dissolved	16500 ug/L		200	20	06/04/12 18:30	06/07/12 16:20	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 12:01	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 14:09	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/05/12 13:43	06/06/12 11:34	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	2280 umhos/cm		10.0	1			06/04/12 15:06	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	1460 mg/L		6.0	1			06/07/12 00:00	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: MW-5 DEEP 20120524	Lab ID: 60122217026	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	1.2	PSU	0.010	1		06/07/12 00:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	30.0	mg/L	20.0	1		06/05/12 13:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		06/05/12 13:30		
Alkalinity, Total as CaCO3	30.0	mg/L	20.0	1		06/05/12 13:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	1940	mg/L	5.0	1		05/31/12 16:51		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	280	mg/L	5.0	1		05/31/12 15:01		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		05/31/12 05:47	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	1640	mg/L	200	200		06/08/12 01:32	14808-79-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		06/01/12 18:38	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		06/12/12 12:28	7440-44-0	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: MW-6 SHALLOW 20120523	Lab ID: 60122217027	Collected: 05/23/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	250000 ug/L		100	1	06/05/12 09:50	06/06/12 16:57	7440-70-2	
Magnesium, Dissolved	41400 ug/L		50.0	1	06/05/12 09:50	06/06/12 16:57	7439-95-4	
Potassium, Dissolved	10500 ug/L		500	1	06/05/12 09:50	06/06/12 16:57	7440-09-7	
Sodium, Dissolved	3210 ug/L		500	1	06/05/12 09:50	06/06/12 16:57	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	9310 ug/L		4.0	1	06/06/12 16:01	06/15/12 16:53	7429-90-5	
Antimony	ND ug/L		0.50	1	06/06/12 16:01	06/15/12 16:53	7440-36-0	
Arsenic	50.0 ug/L		0.50	1	06/06/12 16:01	06/15/12 16:53	7440-38-2	
Barium	97.4 ug/L		0.30	1	06/06/12 16:01	06/15/12 16:53	7440-39-3	
Beryllium	1.4 ug/L		0.20	1	06/06/12 16:01	06/15/12 16:53	7440-41-7	
Cadmium	4.1 ug/L		0.080	1	06/06/12 16:01	06/15/12 16:53	7440-43-9	
Calcium	282000 ug/L		400	20	06/06/12 16:01	06/15/12 16:58	7440-70-2	
Chromium	6.2 ug/L		0.50	1	06/06/12 16:01	06/15/12 16:53	7440-47-3	
Cobalt	6.3 ug/L		0.50	1	06/06/12 16:01	06/15/12 16:53	7440-48-4	
Copper	26.3 ug/L		0.50	1	06/06/12 16:01	06/15/12 16:53	7440-50-8	
Iron	48700 ug/L		1000	20	06/06/12 16:01	06/15/12 16:58	7439-89-6	
Lead	47.5 ug/L		0.10	1	06/06/12 16:01	06/15/12 16:53	7439-92-1	
Magnesium	44400 ug/L		100	20	06/06/12 16:01	06/15/12 16:58	7439-95-4	
Manganese	5280 ug/L		10.0	20	06/06/12 16:01	06/15/12 16:58	7439-96-5	
Molybdenum	5.1 ug/L		0.50	1	06/06/12 16:01	06/15/12 16:53	7439-98-7	
Nickel	7.4 ug/L		0.50	1	06/06/12 16:01	06/15/12 16:53	7440-02-0	
Potassium	12000 ug/L		20.0	1	06/06/12 16:01	06/15/12 16:53	7440-09-7	
Selenium	0.84 ug/L		0.50	1	06/06/12 16:01	06/15/12 16:53	7782-49-2	
Silica	56900 ug/L		1070	20	06/06/12 16:01	06/15/12 16:58	7631-86-9	
Silver	ND ug/L		0.50	1	06/06/12 16:01	06/15/12 16:53	7440-22-4	
Sodium	3510 ug/L		50.0	1	06/06/12 16:01	06/15/12 16:53	7440-23-5	
Thallium	0.26 ug/L		0.10	1	06/06/12 16:01	06/15/12 16:53	7440-28-0	
Total Hardness by 2340B	886000 ug/L		1420	20	06/06/12 16:01	06/15/12 16:58		
Vanadium	9.4 ug/L		0.10	1	06/06/12 16:01	06/15/12 16:53	7440-62-2	
Zinc	1260 ug/L		100	20	06/06/12 16:01	06/15/12 16:58	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	985 ug/L		4.0	1	06/07/12 10:46	06/11/12 17:12	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	06/07/12 10:46	06/11/12 17:12	7440-36-0	
Arsenic, Dissolved	31.0 ug/L		0.50	1	06/07/12 10:46	06/11/12 17:12	7440-38-2	
Barium, Dissolved	18.5 ug/L		0.30	1	06/07/12 10:46	06/11/12 17:12	7440-39-3	B
Beryllium, Dissolved	0.84 ug/L		0.20	1	06/07/12 10:46	06/11/12 17:12	7440-41-7	
Cadmium, Dissolved	0.47 ug/L		0.080	1	06/07/12 10:46	06/11/12 17:12	7440-43-9	
Calcium, Dissolved	285000 ug/L		400	20	06/07/12 10:46	06/11/12 02:53	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	06/07/12 10:46	06/11/12 17:12	7440-47-3	
Cobalt, Dissolved	3.9 ug/L		0.50	1	06/07/12 10:46	06/11/12 17:12	7440-48-4	
Copper, Dissolved	2.1 ug/L		0.50	1	06/07/12 10:46	06/11/12 17:12	7440-50-8	
Iron, Dissolved	42100 ug/L		500	10	06/07/12 10:46	06/11/12 17:16	7439-89-6	
Lead, Dissolved	0.32 ug/L		0.10	1	06/07/12 10:46	06/11/12 17:12	7439-92-1	
Magnesium, Dissolved	44900 ug/L		50.0	10	06/07/12 10:46	06/11/12 17:16	7439-95-4	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: MW-6 SHALLOW 20120523	Lab ID: 60122217027	Collected: 05/23/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	5360 ug/L		10.0	20	06/07/12 10:46	06/11/12 02:53	7439-96-5	
Molybdenum, Dissolved	3.9 ug/L		0.50	1	06/07/12 10:46	06/11/12 17:12	7439-98-7	
Nickel, Dissolved	5.0 ug/L		0.50	1	06/07/12 10:46	06/11/12 17:12	7440-02-0	
Potassium, Dissolved	10900 ug/L		20.0	1	06/07/12 10:46	06/11/12 17:12	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	06/07/12 10:46	06/11/12 17:12	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	06/07/12 10:46	06/11/12 17:12	7440-22-4	
Sodium, Dissolved	3520 ug/L		50.0	1	06/07/12 10:46	06/11/12 17:12	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	06/07/12 10:46	06/11/12 17:12	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	06/07/12 10:46	06/11/12 17:12	7440-62-2	
Zinc, Dissolved	687 ug/L		50.0	10	06/07/12 10:46	06/11/12 17:16	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	4280 ug/L		50.0	1	06/04/12 18:30	06/07/12 15:27	7429-90-5	
Antimony, Dissolved	0.21J ug/L		1.0	1	06/04/12 18:30	06/07/12 15:27	7440-36-0	
Arsenic, Dissolved	44.6 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:27	7440-38-2	
Barium, Dissolved	44.3 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:27	7440-39-3	
Beryllium, Dissolved	1.3 ug/L		0.50	1	06/04/12 18:30	06/07/12 15:27	7440-41-7	
Cadmium, Dissolved	4.2 ug/L		0.50	1	06/04/12 18:30	06/07/12 15:27	7440-43-9	
Chromium, Dissolved	4.1 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:27	7440-47-3	
Cobalt, Dissolved	5.6 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:27	7440-48-4	
Copper, Dissolved	22.2 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:27	7440-50-8	
Iron, Dissolved	47200 ug/L		50.0	1	06/04/12 18:30	06/07/12 15:27	7439-89-6	
Lead, Dissolved	51.6 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:27	7439-92-1	
Manganese, Dissolved	5300 ug/L		10.0	10	06/04/12 18:30	06/07/12 16:24	7439-96-5	
Molybdenum, Dissolved	2.9 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:27	7439-98-7	
Nickel, Dissolved	3.9 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:27	7440-02-0	
Selenium, Dissolved	0.70J ug/L		1.0	1	06/04/12 18:30	06/07/12 15:27	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	06/04/12 18:30	06/07/12 15:27	7440-22-4	
Thallium, Dissolved	0.28J ug/L		1.0	1	06/04/12 18:30	06/07/12 15:27	7440-28-0	
Vanadium, Dissolved	4.5 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:27	7440-62-2	
Zinc, Dissolved	1280 ug/L		10.0	1	06/04/12 18:30	06/07/12 15:27	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 12:03	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 14:11	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/05/12 13:43	06/06/12 11:36	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	1650 umhos/cm		10.0	1			06/04/12 15:07	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	1050 mg/L		6.0	1			06/07/12 00:00	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING
Pace Project No.: 60122217

Sample: MW-6 SHALLOW 20120523	Lab ID: 60122217027	Collected: 05/23/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	0.83 PSU		0.010	1		06/07/12 00:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	98.0 mg/L		20.0	1		06/04/12 14:15		
Alkalinity, Carbonate (CaCO3)	ND mg/L		20.0	1		06/04/12 14:15		
Alkalinity, Total as CaCO3	98.0 mg/L		20.0	1		06/04/12 14:15		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	1270 mg/L		5.0	1		05/31/12 16:54		H1
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	294 mg/L		5.0	1		05/31/12 10:38		H1
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND mg/L		0.050	1		05/31/12 07:40	18496-25-8	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	987 mg/L		100	100		06/08/12 01:50	14808-79-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	0.020 mg/L		0.0050	1		06/01/12 18:09	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND mg/L		1.0	1		06/13/12 08:47	7440-44-0	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: MW-6 DEEP 20120523	Lab ID: 60122217028	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	248000 ug/L		100	1	06/05/12 09:50	06/06/12 17:00	7440-70-2	
Magnesium, Dissolved	36600 ug/L		50.0	1	06/05/12 09:50	06/06/12 17:00	7439-95-4	
Potassium, Dissolved	5920 ug/L		500	1	06/05/12 09:50	06/06/12 17:00	7440-09-7	
Sodium, Dissolved	4800 ug/L		500	1	06/05/12 09:50	06/06/12 17:00	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	409 ug/L		4.0	1	06/06/12 16:01	06/15/12 17:12	7429-90-5	
Antimony	ND ug/L		0.50	1	06/06/12 16:01	06/15/12 17:12	7440-36-0	
Arsenic	53.5 ug/L		0.50	1	06/06/12 16:01	06/15/12 17:12	7440-38-2	
Barium	18.4 ug/L		0.30	1	06/06/12 16:01	06/15/12 17:12	7440-39-3	
Beryllium	0.62 ug/L		0.20	1	06/06/12 16:01	06/15/12 17:12	7440-41-7	
Cadmium	0.32 ug/L		0.080	1	06/06/12 16:01	06/15/12 17:12	7440-43-9	
Calcium	259000 ug/L		400	20	06/06/12 16:01	06/15/12 17:16	7440-70-2	
Chromium	ND ug/L		0.50	1	06/06/12 16:01	06/15/12 17:12	7440-47-3	
Cobalt	2.7 ug/L		0.50	1	06/06/12 16:01	06/15/12 17:12	7440-48-4	
Copper	1.4 ug/L		0.50	1	06/06/12 16:01	06/15/12 17:12	7440-50-8	
Iron	19000 ug/L		50.0	1	06/06/12 16:01	06/15/12 17:12	7439-89-6	
Lead	3.7 ug/L		0.10	1	06/06/12 16:01	06/15/12 17:12	7439-92-1	
Magnesium	35800 ug/L		100	20	06/06/12 16:01	06/15/12 17:16	7439-95-4	
Manganese	7080 ug/L		10.0	20	06/06/12 16:01	06/15/12 17:16	7439-96-5	
Molybdenum	5.4 ug/L		0.50	1	06/06/12 16:01	06/15/12 17:12	7439-98-7	
Nickel	1.8 ug/L		0.50	1	06/06/12 16:01	06/15/12 17:12	7440-02-0	
Potassium	5630 ug/L		20.0	1	06/06/12 16:01	06/15/12 17:12	7440-09-7	
Selenium	1.0 ug/L		0.50	1	06/06/12 16:01	06/15/12 17:12	7782-49-2	
Silica	16800 ug/L		1070	20	06/06/12 16:01	06/15/12 17:16	7631-86-9	
Silver	ND ug/L		0.50	1	06/06/12 16:01	06/15/12 17:12	7440-22-4	
Sodium	4820 ug/L		50.0	1	06/06/12 16:01	06/15/12 17:12	7440-23-5	
Thallium	ND ug/L		0.10	1	06/06/12 16:01	06/15/12 17:12	7440-28-0	
Total Hardness by 2340B	793000 ug/L		1420	20	06/06/12 16:01	06/15/12 17:16		
Vanadium	0.18 ug/L		0.10	1	06/06/12 16:01	06/15/12 17:12	7440-62-2	
Zinc	271 ug/L		5.0	1	06/06/12 16:01	06/15/12 17:12	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	339 ug/L		4.0	1	06/07/12 10:46	06/11/12 03:07	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	06/07/12 10:46	06/11/12 03:07	7440-36-0	
Arsenic, Dissolved	10.1 ug/L		0.50	1	06/07/12 10:46	06/11/12 03:07	7440-38-2	
Barium, Dissolved	17.0 ug/L		0.30	1	06/07/12 10:46	06/11/12 03:07	7440-39-3	B
Beryllium, Dissolved	0.68 ug/L		0.20	1	06/07/12 10:46	06/11/12 03:07	7440-41-7	
Cadmium, Dissolved	0.21 ug/L		0.080	1	06/07/12 10:46	06/11/12 03:07	7440-43-9	
Calcium, Dissolved	276000 ug/L		2000	100	06/07/12 10:46	06/11/12 03:16	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	06/07/12 10:46	06/11/12 03:07	7440-47-3	
Cobalt, Dissolved	2.7 ug/L		0.50	1	06/07/12 10:46	06/11/12 03:07	7440-48-4	
Copper, Dissolved	2.6 ug/L		0.50	1	06/07/12 10:46	06/11/12 03:07	7440-50-8	
Iron, Dissolved	14300 ug/L		50.0	1	06/07/12 10:46	06/11/12 03:07	7439-89-6	
Lead, Dissolved	0.19 ug/L		0.10	1	06/07/12 10:46	06/11/12 03:07	7439-92-1	
Magnesium, Dissolved	40000 ug/L		50.0	10	06/07/12 10:46	06/11/12 03:12	7439-95-4	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: MW-6 DEEP 20120523	Lab ID: 60122217028	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	7660 ug/L		50.0	100	06/07/12 10:46	06/11/12 03:16	7439-96-5	
Molybdenum, Dissolved	5.0 ug/L		0.50	1	06/07/12 10:46	06/11/12 03:07	7439-98-7	
Nickel, Dissolved	3.5 ug/L		0.50	1	06/07/12 10:46	06/11/12 03:07	7440-02-0	
Potassium, Dissolved	5470 ug/L		20.0	1	06/07/12 10:46	06/11/12 03:07	7440-09-7	
Selenium, Dissolved	0.57 ug/L		0.50	1	06/07/12 10:46	06/11/12 03:07	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	06/07/12 10:46	06/11/12 03:07	7440-22-4	
Sodium, Dissolved	4550 ug/L		50.0	1	06/07/12 10:46	06/11/12 03:07	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	06/07/12 10:46	06/11/12 03:07	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	06/07/12 10:46	06/11/12 03:07	7440-62-2	
Zinc, Dissolved	251 ug/L		5.0	1	06/07/12 10:46	06/11/12 03:07	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	368 ug/L		50.0	1	06/04/12 18:30	06/07/12 15:31	7429-90-5	
Antimony, Dissolved	0.17J ug/L		1.0	1	06/04/12 18:30	06/07/12 15:31	7440-36-0	
Arsenic, Dissolved	51.5 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:31	7440-38-2	
Barium, Dissolved	17.0 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:31	7440-39-3	
Beryllium, Dissolved	0.78 ug/L		0.50	1	06/04/12 18:30	06/07/12 15:31	7440-41-7	
Cadmium, Dissolved	0.25J ug/L		0.50	1	06/04/12 18:30	06/07/12 15:31	7440-43-9	
Chromium, Dissolved	0.28J ug/L		1.0	1	06/04/12 18:30	06/07/12 15:31	7440-47-3	
Cobalt, Dissolved	2.5 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:31	7440-48-4	
Copper, Dissolved	2.5 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:31	7440-50-8	
Iron, Dissolved	20000 ug/L		50.0	1	06/04/12 18:30	06/07/12 15:31	7439-89-6	
Lead, Dissolved	4.9 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:31	7439-92-1	
Manganese, Dissolved	7360 ug/L		10.0	10	06/04/12 18:30	06/07/12 16:28	7439-96-5	
Molybdenum, Dissolved	5.3 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:31	7439-98-7	
Nickel, Dissolved	0.23J ug/L		1.0	1	06/04/12 18:30	06/07/12 15:31	7440-02-0	
Selenium, Dissolved	1.1 ug/L		1.0	1	06/04/12 18:30	06/07/12 15:31	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	06/04/12 18:30	06/07/12 15:31	7440-22-4	
Thallium, Dissolved	0.094J ug/L		1.0	1	06/04/12 18:30	06/07/12 15:31	7440-28-0	
Vanadium, Dissolved	ND ug/L		1.0	1	06/04/12 18:30	06/07/12 15:31	7440-62-2	
Zinc, Dissolved	278 ug/L		10.0	1	06/04/12 18:30	06/07/12 15:31	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 12:10	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/01/12 13:30	06/04/12 14:13	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	06/05/12 13:43	06/06/12 11:38	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	1460 umhos/cm		10.0	1			06/04/12 15:09	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	933 mg/L		6.0	1			06/07/12 00:00	

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ANALYTICAL RESULTS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Sample: MW-6 DEEP 20120523	Lab ID: 60122217028	Collected: 05/24/12 08:00	Received: 05/26/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	0.73 PSU		0.010	1		06/07/12 00:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO ₃)	186 mg/L		20.0	1		06/05/12 13:30		
Alkalinity, Carbonate (CaCO ₃)	ND mg/L		20.0	1		06/05/12 13:30		
Alkalinity, Total as CaCO ₃	186 mg/L		20.0	1		06/05/12 13:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	1190 mg/L		5.0	1		05/31/12 16:51		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	41.0 mg/L		5.0	1		05/31/12 15:01		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND mg/L		0.050	1		05/31/12 05:48	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	807 mg/L		50.0	50		06/08/12 02:08	14808-79-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND mg/L		0.0050	1		06/01/12 18:39	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND mg/L		1.0	1		06/13/12 09:01	7440-44-0	

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Appendix D
Laboratory QC Results

QUALITY CONTROL DATA

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

QC Batch:	ICPM/32781	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	200.8 MET
Associated Lab Samples:	60122217001, 60122217002, 60122217003, 60122217004, 60122217005, 60122217006, 60122217007, 60122217008, 60122217009, 60122217010, 60122217011, 60122217012, 60122217013, 60122217014, 60122217015, 60122217016, 60122217017, 60122217018, 60122217019, 60122217020		

METHOD BLANK: 1210028

Matrix: Water

Associated Lab Samples: 60122217001, 60122217002, 60122217003, 60122217004, 60122217005, 60122217006, 60122217007,
60122217008, 60122217009, 60122217010, 60122217011, 60122217012, 60122217013, 60122217014,
60122217015, 60122217016, 60122217017, 60122217018, 60122217019, 60122217020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	4.0	06/15/12 10:39	
Antimony	ug/L	ND	0.50	06/15/12 10:39	
Arsenic	ug/L	ND	0.50	06/15/12 10:39	
Barium	ug/L	ND	0.30	06/15/12 10:39	
Beryllium	ug/L	ND	0.20	06/15/12 10:39	
Cadmium	ug/L	ND	0.080	06/15/12 10:39	
Calcium	ug/L	ND	20.0	06/15/12 10:39	
Chromium	ug/L	ND	0.50	06/15/12 10:39	
Cobalt	ug/L	ND	0.50	06/15/12 10:39	
Copper	ug/L	ND	0.50	06/15/12 10:39	
Iron	ug/L	ND	50.0	06/15/12 10:39	
Lead	ug/L	ND	0.10	06/15/12 10:39	
Magnesium	ug/L	ND	5.0	06/15/12 10:39	
Manganese	ug/L	ND	0.50	06/15/12 10:39	
Molybdenum	ug/L	ND	0.50	06/15/12 10:39	
Nickel	ug/L	ND	0.50	06/15/12 10:39	
Potassium	ug/L	ND	20.0	06/15/12 10:39	
Selenium	ug/L	ND	0.50	06/15/12 10:39	
Silica	ug/L	ND	53.5	06/15/12 10:39	
Silver	ug/L	ND	0.50	06/15/12 10:39	
Sodium	ug/L	ND	50.0	06/15/12 10:39	
Thallium	ug/L	ND	0.10	06/15/12 10:39	
Total Hardness by 2340B	ug/L	ND	71.0	06/15/12 10:39	
Vanadium	ug/L	ND	0.10	06/15/12 10:39	
Zinc	ug/L	ND	5.0	06/15/12 10:39	

LABORATORY CONTROL SAMPLE: 1210029

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	80	80.5	101	85-115	
Antimony	ug/L	80	82.9	104	85-115	
Arsenic	ug/L	80	80.2	100	85-115	
Barium	ug/L	80	82.6	103	85-115	
Beryllium	ug/L	80	85.4	107	85-115	
Cadmium	ug/L	80	81.4	102	85-115	
Calcium	ug/L	1000	958	96	85-115	
Chromium	ug/L	80	79.6	100	85-115	
Cobalt	ug/L	80	78.7	98	85-115	

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QUALITY CONTROL DATA

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

LABORATORY CONTROL SAMPLE: 1210029

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	80	80.2	100	85-115	
Iron	ug/L	1000	1010	101	85-115	
Lead	ug/L	80	81.8	102	85-115	
Magnesium	ug/L	1000	1040	104	85-115	
Manganese	ug/L	80	82.9	104	85-115	
Molybdenum	ug/L	80	78.6	98	85-115	
Nickel	ug/L	80	80.7	101	85-115	
Potassium	ug/L	1000	984	98	85-115	
Selenium	ug/L	80	82.4	103	85-115	
Silica	ug/L	2140	2260	106	85-115	
Silver	ug/L	80	82.7	103	85-115	
Sodium	ug/L	1000	1020	102	85-115	
Thallium	ug/L	80	87.1	109	85-115	
Total Hardness by 2340B	ug/L	6620	6660	101	85-115	
Vanadium	ug/L	80	80.8	101	85-115	
Zinc	ug/L	80	81.6	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1210030 1210031

Parameter	Units	MS Spike		MSD Spike		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max	
		60122217001	Result	Spike Conc.	Conc.						RPD	RPD
Aluminum	ug/L	272	80	80	506	491	291	273	70-130	3	20	
Antimony	ug/L	ND	80	80	81.6	81.0	102	101	70-130	.6	20	
Arsenic	ug/L	ND	80	80	79.4	76.8	99	96	70-130	3	20	
Barium	ug/L	44.4	80	80	124	125	100	101	70-130	.6	20	
Beryllium	ug/L	ND	80	80	85.0	81.6	106	102	70-130	4	20	
Cadmium	ug/L	ND	80	80	80.0	81.0	100	101	70-130	1	20	
Calcium	ug/L	18000	1000	1000	19000	19000	98	94	70-130	.2	20	
Chromium	ug/L	ND	80	80	80.0	79.4	99	99	70-130	.6	20	
Cobalt	ug/L	ND	80	80	78.0	76.6	97	96	70-130	2	20	
Copper	ug/L	0.93	80	80	80.4	78.2	99	97	70-130	3	20	
Iron	ug/L	214	1000	1000	1240	1260	102	104	70-130	1	20	
Lead	ug/L	0.33	80	80	82.4	81.0	103	101	70-130	2	20	
Magnesium	ug/L	2720	1000	1000	3770	3850	105	114	70-130	2	20	
Manganese	ug/L	10.4	80	80	92.9	92.4	103	102	70-130	.5	20	
Molybdenum	ug/L	0.52	80	80	77.8	79.0	97	98	70-130	1	20	
Nickel	ug/L	ND	80	80	79.8	80.1	99	100	70-130	.3	20	
Potassium	ug/L	475	1000	1000	1470	1500	100	103	70-130	2	20	
Selenium	ug/L	ND	80	80	80.7	81.8	101	102	70-130	1	20	
Silica	ug/L	5390	2140	2140	8300	8020	136	123	70-130	3	20	
Silver	ug/L	ND	80	80	81.0	80.9	101	101	70-130	.06	20	
Sodium	ug/L	1090	1000	1000	2130	2070	104	98	70-130	3	20	
Thallium	ug/L	ND	80	80	89.0	87.6	111	109	70-130	2	20	
Total Hardness by 2340B	ug/L	56200	6620	6620	63000	63200	102	106	70-130	.4	20	
Vanadium	ug/L	0.60	80	80	82.6	82.2	103	102	70-130	.5	20	
Zinc	ug/L	ND	80	80	88.5	83.5	106	100	70-130	6	20	

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QUALITY CONTROL DATA

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

MATRIX SPIKE SAMPLE: 1210032

Parameter	Units	60122217012 Result	Spike	MS	MS	% Rec	Qualifiers
			Conc.	Result	% Rec	Limits	
Aluminum	ug/L	2750	80	5120	2960	70-130	
Antimony	ug/L	ND	80	79.0	98	70-130	
Arsenic	ug/L	4.3	80	82.1	97	70-130	
Barium	ug/L	110	80	195	107	70-130	
Beryllium	ug/L	0.22	80	79.0	99	70-130	
Cadmium	ug/L	0.58	80	79.6	99	70-130	
Calcium	ug/L	37700	1000	37900	25	70-130	
Chromium	ug/L	3.0	80	82.6	99	70-130	
Cobalt	ug/L	3.3	80	80.2	96	70-130	
Copper	ug/L	19.8	80	98.3	98	70-130	
Iron	ug/L	4950	1000	6800	185	70-130	
Lead	ug/L	19.4	80	102	104	70-130	
Magnesium	ug/L	5330	1000	6630	130	70-130	
Manganese	ug/L	630	80	721	114	70-130	
Molybdenum	ug/L	2.0	80	79.0	96	70-130	
Nickel	ug/L	5.6	80	85.3	100	70-130	
Potassium	ug/L	1480	1000	2960	148	70-130	
Selenium	ug/L	ND	80	80.1	100	70-130	
Silica	ug/L	16300	2140	27700	535	70-130	
Silver	ug/L	ND	80	79.3	99	70-130	
Sodium	ug/L	2060	1000	3110	105	70-130	
Thallium	ug/L	ND	80	80.8	101	70-130	
Total Hardness by 2340B	ug/L	116000	6620	122000	90	70-130	
Vanadium	ug/L	6.3	80	89.4	104	70-130	
Zinc	ug/L	58.4	80	152	117	70-130	

QUALITY CONTROL DATA

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

QC Batch:	ICPM/32834	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	200.8 MET
Associated Lab Samples:	60122217021, 60122217022, 60122217023, 60122217024, 60122217025, 60122217026, 60122217027, 60122217028		

METHOD BLANK:	1211588	Matrix:	Water
Associated Lab Samples:	60122217021, 60122217022, 60122217023, 60122217024, 60122217025, 60122217026, 60122217027, 60122217028		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	4.0	06/19/12 15:48	
Antimony	ug/L	ND	0.50	06/19/12 15:48	
Arsenic	ug/L	ND	0.50	06/19/12 15:48	
Barium	ug/L	ND	0.30	06/19/12 15:48	
Beryllium	ug/L	ND	0.20	06/19/12 15:48	
Cadmium	ug/L	ND	0.080	06/19/12 15:48	
Calcium	ug/L	ND	20.0	06/19/12 15:48	
Chromium	ug/L	ND	0.50	06/19/12 15:48	
Cobalt	ug/L	ND	0.50	06/19/12 15:48	
Copper	ug/L	ND	0.50	06/19/12 15:48	
Iron	ug/L	ND	50.0	06/19/12 15:48	
Lead	ug/L	ND	0.10	06/19/12 15:48	
Magnesium	ug/L	ND	5.0	06/19/12 15:48	
Manganese	ug/L	ND	0.50	06/19/12 15:48	
Molybdenum	ug/L	ND	0.50	06/19/12 15:48	
Nickel	ug/L	ND	0.50	06/19/12 15:48	
Potassium	ug/L	ND	20.0	06/19/12 15:48	
Selenium	ug/L	ND	0.50	06/19/12 15:48	
Silica	ug/L	ND	53.5	06/19/12 15:48	
Silver	ug/L	ND	0.50	06/19/12 15:48	
Sodium	ug/L	ND	50.0	06/19/12 15:48	
Thallium	ug/L	ND	0.10	06/19/12 15:48	
Total Hardness by 2340B	ug/L	ND	71.0	06/19/12 15:48	
Vanadium	ug/L	ND	0.10	06/19/12 15:48	
Zinc	ug/L	ND	5.0	06/19/12 15:48	

LABORATORY CONTROL SAMPLE: 1211589

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	80	75.5	94	85-115	
Antimony	ug/L	80	78.3	98	85-115	
Arsenic	ug/L	80	79.8	100	85-115	
Barium	ug/L	80	75.6	94	85-115	
Beryllium	ug/L	80	77.7	97	85-115	
Cadmium	ug/L	80	76.5	96	85-115	
Calcium	ug/L	1000	928	93	85-115	
Chromium	ug/L	80	75.6	94	85-115	
Cobalt	ug/L	80	77.2	96	85-115	
Copper	ug/L	80	78.0	97	85-115	
Iron	ug/L	1000	933	93	85-115	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

LABORATORY CONTROL SAMPLE: 1211589

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	80	76.2	95	85-115	
Magnesium	ug/L	1000	939	94	85-115	
Manganese	ug/L	80	76.2	95	85-115	
Molybdenum	ug/L	80	75.3	94	85-115	
Nickel	ug/L	80	79.3	99	85-115	
Potassium	ug/L	1000	938	94	85-115	
Selenium	ug/L	80	78.3	98	85-115	
Silica	ug/L	2140	2200	103	85-115	
Silver	ug/L	80	79.3	99	85-115	
Sodium	ug/L	1000	959	96	85-115	
Thallium	ug/L	80	76.3	95	85-115	
Total Hardness by 2340B	ug/L	6620	6180	93	85-115	
Vanadium	ug/L	80	76.6	96	85-115	
Zinc	ug/L	80	78.1	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1211590 1211591

Parameter	Units	60122217021		MS Spike Conc.		MSD Spike Conc.		MS Result		MSD Result		MS % Rec	MSD % Rec	% Rec Limits	RPD	RPD	Max Qual
		Result	Conc.	Conc.	Result	Conc.	Result	Conc.	Result	Conc.	Result						
Aluminum	ug/L	108	80	80	232	231	155	154	70-130	.3	20	M6					
Antimony	ug/L	ND	80	80	78.5	77.6	98	97	70-130	1	20						
Arsenic	ug/L	ND	80	80	77.0	78.8	96	98	70-130	2	20						
Barium	ug/L	14.7	80	80	91.4	89.8	96	94	70-130	2	20						
Beryllium	ug/L	ND	80	80	80.4	74.8	100	94	70-130	7	20						
Cadmium	ug/L	1.5	80	80	77.0	77.3	94	95	70-130	.4	20						
Calcium	ug/L	258000	1000	1000	262000	261000	310	230	70-130	.3	20	E,M6					
Chromium	ug/L	ND	80	80	75.8	73.4	94	91	70-130	3	20						
Cobalt	ug/L	ND	80	80	74.4	76.8	93	96	70-130	3	20						
Copper	ug/L	1.7	80	80	77.1	77.2	94	94	70-130	.1	20						
Iron	ug/L	233	1000	1000	1180	1190	95	96	70-130	.9	20						
Lead	ug/L	2.4	80	80	78.9	77.8	96	94	70-130	1	20						
Magnesium	ug/L	23800	1000	1000	25000	24900	118	104	70-130	.6	20						
Manganese	ug/L	39.9	80	80	120	116	100	95	70-130	3	20						
Molybdenum	ug/L	6.2	80	80	82.6	81.0	95	93	70-130	2	20						
Nickel	ug/L	ND	80	80	75.6	76.6	94	95	70-130	1	20						
Potassium	ug/L	1750	1000	1000	2800	2750	104	100	70-130	2	20						
Selenium	ug/L	1.1	80	80	78.7	80.0	97	99	70-130	2	20						
Silica	ug/L	12400	2140	2140	14900	14600	114	102	70-130	2	20						
Silver	ug/L	ND	80	80	75.9	76.4	95	95	70-130	.6	20						
Sodium	ug/L	9380	1000	1000	10700	10500	129	111	70-130	2	20						
Thallium	ug/L	ND	80	80	76.5	75.7	95	95	70-130	1	20						
Total Hardness by 2340B	ug/L	744000	6620	6620	756000	754000	191	151	70-130	.3	20						
Vanadium	ug/L	0.18	80	80	77.5	77.7	97	97	70-130	.2	20						
Zinc	ug/L	36.5	80	80	116	121	100	106	70-130	4	20						

QUALITY CONTROL DATA

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

MATRIX SPIKE SAMPLE: 1211592

Parameter	Units	10194223001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	172	80	349	221	70-130	M1
Antimony	ug/L	ND	80	77.4	97	70-130	
Arsenic	ug/L	1.3	80	77.8	96	70-130	
Barium	ug/L	45.2	80	122	96	70-130	
Beryllium	ug/L	ND	80	80.3	100	70-130	
Cadmium	ug/L	ND	80	76.8	96	70-130	
Calcium	ug/L		1000	33100	186	70-130	M1
Chromium	ug/L	0.62	80	74.7	93	70-130	
Cobalt	ug/L	ND	80	75.2	94	70-130	
Copper	ug/L	1.6	80	78.6	96	70-130	
Iron	ug/L	656	1000	1640	99	70-130	
Lead	ug/L	0.28	80	77.4	96	70-130	
Magnesium	ug/L	9700	1000	10500	79	70-130	
Manganese	ug/L	110	80	190	99	70-130	
Molybdenum	ug/L			76.6			
Nickel	ug/L	1.4	80	77.8	96	70-130	
Potassium	ug/L	2160	1000	3120	95	70-130	
Selenium	ug/L	ND	80	78.2	97	70-130	
Silica	ug/L	10900	2140	14000	145	70-130	
Silver	ug/L	ND	80	77.0	96	70-130	
Sodium	ug/L	5540	1000	6440	91	70-130	
Thallium	ug/L	ND	80	76.8	96	70-130	
Total Hardness by 2340B	ug/L	118000	6620	126000	120	70-130	
Vanadium	ug/L		1.2	80	78.4	96	70-130
Zinc	ug/L		ND	80.5	97	70-130	

QUALITY CONTROL DATA

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

QC Batch:	ICPM/32777	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	200.8 MET Dissolved
Associated Lab Samples:	60122217001, 60122217002, 60122217003, 60122217004, 60122217005, 60122217006, 60122217007, 60122217008, 60122217009, 60122217010, 60122217011, 60122217012, 60122217013, 60122217014, 60122217015, 60122217016, 60122217017, 60122217018, 60122217019, 60122217020		

METHOD BLANK: 1209998

Matrix: Water

Associated Lab Samples:	60122217001, 60122217002, 60122217003, 60122217004, 60122217005, 60122217006, 60122217007, 60122217008, 60122217009, 60122217010, 60122217011, 60122217012, 60122217013, 60122217014, 60122217015, 60122217016, 60122217017, 60122217018, 60122217019, 60122217020		
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Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	4.0	06/20/12 15:02	
Antimony, Dissolved	ug/L	ND	0.50	06/20/12 15:02	
Arsenic, Dissolved	ug/L	ND	0.50	06/20/12 15:02	
Barium, Dissolved	ug/L	ND	0.30	06/20/12 15:02	
Beryllium, Dissolved	ug/L	ND	0.20	06/20/12 15:02	
Cadmium, Dissolved	ug/L	ND	0.080	06/20/12 15:02	
Calcium, Dissolved	ug/L	ND	20.0	06/20/12 15:02	
Chromium, Dissolved	ug/L	ND	0.50	06/20/12 15:02	
Cobalt, Dissolved	ug/L	ND	0.50	06/20/12 15:02	
Copper, Dissolved	ug/L	ND	0.50	06/20/12 15:02	
Iron, Dissolved	ug/L	ND	50.0	06/20/12 15:02	
Lead, Dissolved	ug/L	ND	0.10	06/20/12 15:02	
Magnesium, Dissolved	ug/L	ND	5.0	06/20/12 15:02	
Manganese, Dissolved	ug/L	ND	0.50	06/20/12 15:02	
Molybdenum, Dissolved	ug/L	ND	0.50	06/20/12 15:02	
Nickel, Dissolved	ug/L	ND	0.50	06/20/12 15:02	
Potassium, Dissolved	ug/L	ND	20.0	06/20/12 15:02	
Selenium, Dissolved	ug/L	ND	0.50	06/20/12 15:02	
Silver, Dissolved	ug/L	ND	0.50	06/20/12 15:02	
Sodium, Dissolved	ug/L	ND	50.0	06/20/12 15:02	
Thallium, Dissolved	ug/L	ND	0.10	06/20/12 15:02	
Vanadium, Dissolved	ug/L	ND	0.10	06/20/12 15:02	
Zinc, Dissolved	ug/L	ND	5.0	06/20/12 15:02	

LABORATORY CONTROL SAMPLE: 1209999

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	80	82.1	103	85-115	
Antimony, Dissolved	ug/L	80	78.5	98	85-115	
Arsenic, Dissolved	ug/L	80	80.3	100	85-115	
Barium, Dissolved	ug/L	80	79.2	99	85-115	
Beryllium, Dissolved	ug/L	80	77.4	97	85-115	
Cadmium, Dissolved	ug/L	80	78.6	98	85-115	
Calcium, Dissolved	ug/L	1000	954	95	85-115	
Chromium, Dissolved	ug/L	80	79.0	99	85-115	
Cobalt, Dissolved	ug/L	80	79.2	99	85-115	
Copper, Dissolved	ug/L	80	80.4	101	85-115	
Iron, Dissolved	ug/L	1000	999	100	85-115	

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QUALITY CONTROL DATA

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

LABORATORY CONTROL SAMPLE: 1209999

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead, Dissolved	ug/L	80	76.8	96	85-115	
Magnesium, Dissolved	ug/L	1000	974	97	85-115	
Manganese, Dissolved	ug/L	80	79.7	100	85-115	
Molybdenum, Dissolved	ug/L	80	76.2	95	85-115	
Nickel, Dissolved	ug/L	80	78.8	98	85-115	
Potassium, Dissolved	ug/L	1000	959	96	85-115	
Selenium, Dissolved	ug/L	80	81.5	102	85-115	
Silver, Dissolved	ug/L	80	81.2	101	85-115	
Sodium, Dissolved	ug/L	1000	942	94	85-115	
Thallium, Dissolved	ug/L	80	76.6	96	85-115	
Vanadium, Dissolved	ug/L	80	77.9	97	85-115	
Zinc, Dissolved	ug/L	80	80.0	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1210000 1210001

Parameter	Units	MS Spike		MSD Spike		MS Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	RPD	Max Qual
		60122217001	Result	Conc.	Conc.							
Aluminum, Dissolved	ug/L	50.4	160	160	151	135	63	53	70-130	12	20	M1
Antimony, Dissolved	ug/L	ND	160	160	87.9	83.7	55	52	70-130	5	20	M1
Arsenic, Dissolved	ug/L	ND	160	160	89.8	84.2	56	52	70-130	6	20	M1
Barium, Dissolved	ug/L	42.0	160	160	141	126	62	53	70-130	11	20	M1
Beryllium, Dissolved	ug/L	ND	160	160	92.0	78.0	58	49	70-130	16	20	M1
Cadmium, Dissolved	ug/L	ND	160	160	92.0	83.6	57	52	70-130	10	20	M1
Calcium, Dissolved	ug/L	19600	2000	2000	23900	21100	219	76	70-130	13	20	M1
Chromium, Dissolved	ug/L	ND	160	160	94.1	83.8	59	52	70-130	12	20	M1
Cobalt, Dissolved	ug/L	ND	160	160	96.0	84.4	60	53	70-130	13	20	M1
Copper, Dissolved	ug/L	6.2	160	160	97.1	86.8	57	50	70-130	11	20	M1
Iron, Dissolved	ug/L	ND	2000	2000	1240	1080	60	52	70-130	13	20	M1
Lead, Dissolved	ug/L	0.21	160	160	92.3	80.2	58	50	70-130	14	20	M1
Magnesium, Dissolved	ug/L	2720	2000	2000	4250	3800	76	54	70-130	11	20	M1
Manganese, Dissolved	ug/L	5.8	160	160	103	90.2	61	53	70-130	14	20	M1
Molybdenum, Dissolved	ug/L	ND	160	160	92.4	81.4	58	51	70-130	13	20	
Nickel, Dissolved	ug/L	1.5	160	160	95.3	83.5	59	51	70-130	13	20	M1
Potassium, Dissolved	ug/L	435	2000	2000	1680	1450	62	51	70-130	15	20	M1
Selenium, Dissolved	ug/L	ND	160	160	96.3	86.6	60	54	70-130	11	20	M1
Silver, Dissolved	ug/L	ND	160	160	94.0	85.7	59	54	70-130	9	20	M1
Sodium, Dissolved	ug/L	1080	2000	2000	2430	2080	68	50	70-130	16	20	M1
Thallium, Dissolved	ug/L	ND	160	160	91.3	80.2	57	50	70-130	13	20	M1
Vanadium, Dissolved	ug/L	0.19	160	160	95.3	83.0	59	52	70-130	14	20	M1
Zinc, Dissolved	ug/L	8.5	160	160	102	89.4	58	51	70-130	13	20	M1

MATRIX SPIKE SAMPLE: 1210002

Parameter	Units	60122217011	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	4.6	80	84.4	100	70-130	

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QUALITY CONTROL DATA

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

MATRIX SPIKE SAMPLE: 1210002

Parameter	Units	60122217011 Result	Spike	MS	MS	% Rec	Qualifiers
			Conc.	Result	% Rec	Limits	
Antimony, Dissolved	ug/L	ND	80	76.8	96	70-130	
Arsenic, Dissolved	ug/L	ND	80	79.7	100	70-130	
Barium, Dissolved	ug/L	ND	80	77.9	97	70-130	
Beryllium, Dissolved	ug/L	ND	80	73.4	92	70-130	
Cadmium, Dissolved	ug/L	ND	80	76.7	96	70-130	
Calcium, Dissolved	ug/L	26.7	1000	1060	103	70-130	
Chromium, Dissolved	ug/L	ND	80	73.3	91	70-130	
Cobalt, Dissolved	ug/L	ND	80	77.3	97	70-130	
Copper, Dissolved	ug/L	ND	80	76.2	95	70-130	
Iron, Dissolved	ug/L	ND	1000	945	93	70-130	
Lead, Dissolved	ug/L	ND	80	75.6	95	70-130	
Magnesium, Dissolved	ug/L	ND	1000	925	92	70-130	
Manganese, Dissolved	ug/L	ND	80	76.8	96	70-130	
Molybdenum, Dissolved	ug/L	ND	80	73.5	92	70-130	
Nickel, Dissolved	ug/L	ND	80	78.8	98	70-130	
Potassium, Dissolved	ug/L	ND	1000	934	92	70-130	
Selenium, Dissolved	ug/L	ND	80	80.4	100	70-130	
Silver, Dissolved	ug/L	ND	80	76.1	95	70-130	
Sodium, Dissolved	ug/L	445	1000	1310	86	70-130	
Thallium, Dissolved	ug/L	ND	80	76.0	95	70-130	
Vanadium, Dissolved	ug/L	ND	80	74.2	93	70-130	
Zinc, Dissolved	ug/L	ND	80	79.2	97	70-130	

QUALITY CONTROL DATA

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

QC Batch:	ICPM/32832	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	200.8 MET Dissolved
Associated Lab Samples:	60122217021, 60122217022, 60122217023, 60122217024, 60122217025, 60122217026, 60122217027, 60122217028		

METHOD BLANK: 1211575 Matrix: Water

Associated Lab Samples: 60122217021, 60122217022, 60122217023, 60122217024, 60122217025, 60122217026, 60122217027, 60122217028

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	4.0	06/11/12 01:15	
Antimony, Dissolved	ug/L	ND	0.50	06/11/12 01:15	
Arsenic, Dissolved	ug/L	ND	0.50	06/11/12 01:15	
Barium, Dissolved	ug/L	0.67	0.30	06/11/12 01:15	P8
Beryllium, Dissolved	ug/L	ND	0.20	06/11/12 01:15	
Cadmium, Dissolved	ug/L	ND	0.080	06/11/12 01:15	
Calcium, Dissolved	ug/L	ND	20.0	06/11/12 01:15	
Chromium, Dissolved	ug/L	ND	0.50	06/11/12 01:15	
Cobalt, Dissolved	ug/L	ND	0.50	06/11/12 01:15	
Copper, Dissolved	ug/L	ND	0.50	06/11/12 01:15	
Iron, Dissolved	ug/L	ND	50.0	06/11/12 01:15	
Lead, Dissolved	ug/L	ND	0.10	06/11/12 01:15	CH
Magnesium, Dissolved	ug/L	ND	5.0	06/11/12 01:15	
Manganese, Dissolved	ug/L	ND	0.50	06/11/12 01:15	
Molybdenum, Dissolved	ug/L	ND	0.50	06/11/12 01:15	
Nickel, Dissolved	ug/L	ND	0.50	06/11/12 01:15	
Potassium, Dissolved	ug/L	ND	20.0	06/11/12 01:15	
Selenium, Dissolved	ug/L	ND	0.50	06/11/12 01:15	
Silver, Dissolved	ug/L	ND	0.50	06/11/12 01:15	
Sodium, Dissolved	ug/L	ND	50.0	06/11/12 01:15	
Thallium, Dissolved	ug/L	ND	0.10	06/11/12 01:15	
Vanadium, Dissolved	ug/L	ND	0.10	06/11/12 01:15	
Zinc, Dissolved	ug/L	ND	5.0	06/11/12 01:15	

LABORATORY CONTROL SAMPLE: 1211576

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	80	79.3	99	85-115	
Antimony, Dissolved	ug/L	80	77.9	97	85-115	
Arsenic, Dissolved	ug/L	80	74.9	94	85-115	
Barium, Dissolved	ug/L	80	79.3	99	85-115	
Beryllium, Dissolved	ug/L	80	75.3	94	85-115	
Cadmium, Dissolved	ug/L	80	78.1	98	85-115	
Calcium, Dissolved	ug/L	1000	921	92	85-115	
Chromium, Dissolved	ug/L	80	79.6	99	85-115	
Cobalt, Dissolved	ug/L	80	75.7	95	85-115	
Copper, Dissolved	ug/L	80	79.2	99	85-115	
Iron, Dissolved	ug/L	1000	978	98	85-115	
Lead, Dissolved	ug/L	80	82.3	103	85-115	
Magnesium, Dissolved	ug/L	1000	990	99	85-115	

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QUALITY CONTROL DATA

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

LABORATORY CONTROL SAMPLE: 1211576

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	80	79.4	99	85-115	
Molybdenum, Dissolved	ug/L	80	75.6	95	85-115	
Nickel, Dissolved	ug/L	80	76.5	96	85-115	
Potassium, Dissolved	ug/L	1000	931	93	85-115	
Selenium, Dissolved	ug/L	80	76.3	95	85-115	
Silver, Dissolved	ug/L	80	78.9	99	85-115	
Sodium, Dissolved	ug/L	1000	882	88	85-115	
Thallium, Dissolved	ug/L	80	81.1	101	85-115	
Vanadium, Dissolved	ug/L	80	78.6	98	85-115	
Zinc, Dissolved	ug/L	80	76.1	95	85-115	

MATRIX SPIKE SAMPLE: 1211579

Parameter	Units	10194069001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	0.0031J mg/L	80	81.6	98	70-130	
Antimony, Dissolved	ug/L	<0.00025 mg/L	80	74.4	93	70-130	
Arsenic, Dissolved	ug/L	0.0036 mg/L	80	75.8	90	70-130	
Barium, Dissolved	ug/L	0.014 mg/L	80	89.6	95	70-130	
Beryllium, Dissolved	ug/L	<0.000092 mg/L	80	80.6	101	70-130	
Cadmium, Dissolved	ug/L	<0.000028 mg/L	80	75.0	94	70-130	
Calcium, Dissolved	ug/L	35.0 mg/L	1000	37000	208	70-130 M1	
Chromium, Dissolved	ug/L	0.00046J mg/L	80	78.4	97	70-130	
Cobalt, Dissolved	ug/L	<0.070	80	73.8	92	70-130	
Copper, Dissolved	ug/L	0.00056 mg/L	80	76.9	95	70-130	
Iron, Dissolved	ug/L	<0.025 mg/L	1000	944	94	70-130	
Lead, Dissolved	ug/L	0.000054J mg/L	80	80.0	100	70-130	
Magnesium, Dissolved	ug/L	22.5 mg/L	1000	24500	198	70-130 M1	
Manganese, Dissolved	ug/L	0.0063 mg/L	80	83.0	96	70-130	
Molybdenum, Dissolved	ug/L			75.8			
Nickel, Dissolved	ug/L	0.00017J mg/L	80	74.7	93	70-130	
Potassium, Dissolved	ug/L	2.8 mg/L	1000	3750	98	70-130	
Selenium, Dissolved	ug/L	<0.00022 mg/L	80	73.0	91	70-130	
Silver, Dissolved	ug/L	<0.00025 mg/L	80	74.0	92	70-130	
Sodium, Dissolved	ug/L	2.1 mg/L	1000	3010	94	70-130	
Thallium, Dissolved	ug/L	0.000072J mg/L	80	76.2	95	70-130	
Vanadium, Dissolved	ug/L	0.10	80	78.2	98	70-130	
Zinc, Dissolved	ug/L	0.0047J mg/L	80	78.1	92	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1212517 1212518

Parameter	Units	10194069008 Result	MS Spike Conc.	MS Spike Conc.	MS Result	MS Result	MS % Rec	MS % Rec	% Rec Limits	Max RPD	Max RPD	Max Qual
Aluminum, Dissolved	ug/L	0.0044 mg/L	80	80	82.7	84.4	98	100	70-130	2	20	
Antimony, Dissolved	ug/L	<0.00025 mg/L	80	80	73.2	73.6	91	92	70-130	.5	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Parameter	Units	10194069008		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Spiked Conc.	Spike Conc.	Result								
Arsenic, Dissolved	ug/L	0.00053 mg/L		80	80	73.1	72.6	91	90	70-130	.8	20	
Barium, Dissolved	ug/L	0.024 mg/L		80	80	97.4	97.4	92	92	70-130	.1	20	
Beryllium, Dissolved	ug/L	<0.000092 mg/L		80	80	72.6	74.4	91	93	70-130	2	20	
Cadmium, Dissolved	ug/L	<0.000028 mg/L		80	80	73.8	74.4	92	93	70-130	.8	20	
Calcium, Dissolved	ug/L	48.6 mg/L		1000	1000	47800	48300	-88	-38	70-130	1	20	M1
Chromium, Dissolved	ug/L	0.0012 mg/L		80	80	78.4	78.8	96	97	70-130	.6	20	
Cobalt, Dissolved	ug/L	<0.070		80	80	73.3	73.4	92	92	70-130	.1	20	
Copper, Dissolved	ug/L	0.0013 mg/L		80	80	76.8	77.6	94	95	70-130	1	20	
Iron, Dissolved	ug/L	<0.025 mg/L		1000	1000	940	958	93	95	70-130	2	20	
Lead, Dissolved	ug/L	0.000057 J mg/L		80	80	79.9	81.1	100	101	70-130	1	20	
Magnesium, Dissolved	ug/L	14.9 mg/L		1000	1000	15300	15000	38	15	70-130	2	20	M1
Manganese, Dissolved	ug/L	0.0012 mg/L		80	80	77.0	77.0	95	95	70-130	.1	20	
Molybdenum, Dissolved	ug/L					72.8	73.8				1	20	
Nickel, Dissolved	ug/L	0.00045 J mg/L		80	80	73.6	75.2	91	93	70-130	2	20	
Potassium, Dissolved	ug/L	2.2 mg/L		1000	1000	3000	2990	79	77	70-130	.5	20	
Selenium, Dissolved	ug/L	<0.00022 mg/L		80	80	72.9	76.2	91	95	70-130	4	20	
Silver, Dissolved	ug/L	<0.00025 mg/L		80	80	72.0	73.6	90	92	70-130	2	20	
Sodium, Dissolved	ug/L	2.3 mg/L		1000	1000	3040	3060	74	76	70-130	.6	20	
Thallium, Dissolved	ug/L	<0.000050 mg/L		80	80	76.2	77.2	95	96	70-130	1	20	
Vanadium, Dissolved	ug/L	0.37		80	80	76.6	75.8	95	94	70-130	1	20	
Zinc, Dissolved	ug/L	0.0042J mg/L		80	80	77.0	79.0	91	94	70-130	2	20	

QUALITY CONTROL DATA

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

QC Batch:	MERP/6330	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury
Associated Lab Samples:	60122217001, 60122217002, 60122217003, 60122217004, 60122217005, 60122217006, 60122217007, 60122217008, 60122217009, 60122217010, 60122217011, 60122217012, 60122217013, 60122217014, 60122217015, 60122217016, 60122217017, 60122217018, 60122217019, 60122217020		

METHOD BLANK: 1007152 Matrix: Water

Associated Lab Samples: 60122217001, 60122217002, 60122217003, 60122217004, 60122217005, 60122217006, 60122217007, 60122217008, 60122217009, 60122217010, 60122217011, 60122217012, 60122217013, 60122217014, 60122217015, 60122217016, 60122217017, 60122217018, 60122217019, 60122217020

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
Mercury	ug/L	ND	0.20	06/04/12 10:20	

LABORATORY CONTROL SAMPLE: 1007153

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Mercury	ug/L	5	4.5	90	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1007154 1007155

Parameter	Units	60122217001	MS	MSD	MS	MSD	MSD	% Rec	% Rec	Max	RPD	RPD	Qual
		Result	Spike	Spike									
Mercury	ug/L	ND	5	5	4.6	4.4	90	86	70-130	4	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1007156 1007157

Parameter	Units	60122217002	MS	MSD	MS	MSD	MSD	% Rec	% Rec	Max	RPD	RPD	Qual
		Result	Spike	Spike									
Mercury	ug/L	ND	5	5	4.0	4.3	78	85	70-130	8	20		

QUALITY CONTROL DATA

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

QC Batch:	MERP/6331	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury
Associated Lab Samples:	60122217021, 60122217022, 60122217023, 60122217024, 60122217025, 60122217026, 60122217027, 60122217028		

METHOD BLANK: 1007163 Matrix: Water

Associated Lab Samples: 60122217021, 60122217022, 60122217023, 60122217024, 60122217025, 60122217026, 60122217027, 60122217028

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	06/04/12 11:32	

LABORATORY CONTROL SAMPLE: 1007164

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.6	91	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1007165 1007166

Parameter	Units	60122217021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.2	4.7	83	93	70-130	11	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1007167 1007168

Parameter	Units	60122217022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.6	4.0	91	78	70-130	16	20	

QUALITY CONTROL DATA

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

QC Batch:	MERP/6326	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury - Dissolved
Associated Lab Samples:	60122217001, 60122217002, 60122217003, 60122217004, 60122217005, 60122217006, 60122217007, 60122217008, 60122217009, 60122217010, 60122217011, 60122217012, 60122217013, 60122217014, 60122217015, 60122217016, 60122217017, 60122217018, 60122217019, 60122217020		

METHOD BLANK: 1006858 Matrix: Water

Associated Lab Samples: 60122217001, 60122217002, 60122217003, 60122217004, 60122217005, 60122217006, 60122217007, 60122217008, 60122217009, 60122217010, 60122217011, 60122217012, 60122217013, 60122217014, 60122217015, 60122217016, 60122217017, 60122217018, 60122217019, 60122217020

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
Mercury, Dissolved	ug/L	ND	0.20	06/04/12 12:23	

LABORATORY CONTROL SAMPLE: 1006859

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Mercury, Dissolved	ug/L	5	4.9	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1006860 1006861

Parameter	Units	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Max	RPD	RPD	Qual
		60122217001	Spike										
Mercury, Dissolved	ug/L	ND	5	5	4.9	5.0	97	98	70-130	1	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1006862 1006863

Parameter	Units	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Max	RPD	RPD	Qual
		60122217002	Spike										
Mercury, Dissolved	ug/L	ND	5	5	5.0	4.9	100	97	70-130	2	20		

QUALITY CONTROL DATA

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

QC Batch:	MERP/6327	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury - Dissolved
Associated Lab Samples:	60122217021, 60122217022, 60122217023, 60122217024, 60122217025, 60122217026, 60122217027, 60122217028		

METHOD BLANK: 1006864 Matrix: Water

Associated Lab Samples: 60122217021, 60122217022, 60122217023, 60122217024, 60122217025, 60122217026, 60122217027, 60122217028

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	06/04/12 13:40	

LABORATORY CONTROL SAMPLE: 1006865

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.9	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1006866 1006867

Parameter	Units	60122217021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	4.7	4.7	93	93	70-130	0	20	

QUALITY CONTROL DATA

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

QC Batch:	MERP/6328	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury, Potentially Dissolved
Associated Lab Samples:	60122217001, 60122217002, 60122217003, 60122217004, 60122217005, 60122217006, 60122217007, 60122217008, 60122217009, 60122217010, 60122217011, 60122217012, 60122217013, 60122217014, 60122217015, 60122217016, 60122217017, 60122217018, 60122217019, 60122217020		

METHOD BLANK: 1006877

Matrix: Water

Associated Lab Samples: 60122217001, 60122217002, 60122217003, 60122217004, 60122217005, 60122217006, 60122217007,
60122217008, 60122217009, 60122217010, 60122217011, 60122217012, 60122217013, 60122217014,
60122217015, 60122217016, 60122217017, 60122217018, 60122217019, 60122217020

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
Mercury, Dissolved	ug/L	ND	0.20	06/06/12 10:00	

LABORATORY CONTROL SAMPLE: 1006878

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Mercury, Dissolved	ug/L	5	5.1	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1006879 1006880

Parameter	Units	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Max	RPD	RPD	Qual
		60122217001	Spike										
Mercury, Dissolved	ug/L	ND	5	5	5.4	5.4	107	108	108	70-130	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1006881 1006882

Parameter	Units	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Max	RPD	RPD	Qual
		60122217002	Spike										
Mercury, Dissolved	ug/L	ND	5	5	5.4	5.2	108	104	104	70-130	4	20	

QUALITY CONTROL DATA

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

QC Batch:	MERP/6329	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury, Potentially Dissolved
Associated Lab Samples:	60122217021, 60122217022, 60122217023, 60122217024, 60122217025, 60122217026, 60122217027, 60122217028		

METHOD BLANK: 1006888 Matrix: Water

Associated Lab Samples: 60122217021, 60122217022, 60122217023, 60122217024, 60122217025, 60122217026, 60122217027, 60122217028

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	06/06/12 11:09	

LABORATORY CONTROL SAMPLE: 1006889

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.2	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1006890 1006891

Parameter	Units	60122217021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	5.5	5.5	110	109	70-130	0	20	

QUALITY CONTROL DATA

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

QC Batch:	MPRP/18247	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Potentially Dissolved Metals
Associated Lab Samples:	60122217001, 60122217002, 60122217003, 60122217004, 60122217005, 60122217006, 60122217007, 60122217008, 60122217009, 60122217010		

METHOD BLANK: 1008436 Matrix: Water

Associated Lab Samples: 60122217001, 60122217002, 60122217003, 60122217004, 60122217005, 60122217006, 60122217007, 60122217008, 60122217009, 60122217010

Parameter	Units	Blank	Reporting		Qualifiers
		Result	Limit	Analyzed	
Calcium, Dissolved	ug/L	ND	100	06/06/12 17:04	
Magnesium, Dissolved	ug/L	ND	50.0	06/06/12 17:04	
Potassium, Dissolved	ug/L	ND	500	06/06/12 17:04	
Sodium, Dissolved	ug/L	ND	500	06/06/12 17:04	

LABORATORY CONTROL SAMPLE: 1008437

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Calcium, Dissolved	ug/L	10000	9710	97	85-115	
Magnesium, Dissolved	ug/L	10000	10300	103	85-115	
Potassium, Dissolved	ug/L	10000	10400	104	85-115	
Sodium, Dissolved	ug/L	10000	10100	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1008438 1008439

Parameter	Units	MS		MSD		MS	MSD	% Rec	% Rec	Max	
		60122217005	Spike	Spike	MS	MSD	MS	% Rec	% Rec	RPD	RPD
Calcium, Dissolved	ug/L	236000	10000	10000	248000	245000	119	95	70-130	1	20
Magnesium, Dissolved	ug/L	22400	10000	10000	32400	31900	100	95	70-130	1	20
Potassium, Dissolved	ug/L	1980	10000	10000	12600	12500	106	106	70-130	1	20
Sodium, Dissolved	ug/L	11400	10000	10000	21800	21700	103	102	70-130	0	20

QUALITY CONTROL DATA

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

QC Batch: MPRP/18248

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Potentially Dissolved Metals

Associated Lab Samples: 60122217011, 60122217012, 60122217013, 60122217014, 60122217015, 60122217016, 60122217017,
60122217018, 60122217019, 60122217020, 60122217021, 60122217022, 60122217023, 60122217024,
60122217025, 60122217026, 60122217027, 60122217028

METHOD BLANK: 1008442

Matrix: Water

Associated Lab Samples: 60122217011, 60122217012, 60122217013, 60122217014, 60122217015, 60122217016, 60122217017,
60122217018, 60122217019, 60122217020, 60122217021, 60122217022, 60122217023, 60122217024,
60122217025, 60122217026, 60122217027, 60122217028

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
Calcium, Dissolved	ug/L	8.3J	100	06/06/12 15:59	
Magnesium, Dissolved	ug/L	ND	50.0	06/06/12 15:59	
Potassium, Dissolved	ug/L	ND	500	06/06/12 15:59	
Sodium, Dissolved	ug/L	ND	500	06/06/12 15:59	

LABORATORY CONTROL SAMPLE: 1008443

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Calcium, Dissolved	ug/L	10000	9080	91	85-115	
Magnesium, Dissolved	ug/L	10000	9980	100	85-115	
Potassium, Dissolved	ug/L	10000	10100	101	85-115	
Sodium, Dissolved	ug/L	10000	9680	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1008444 1008445

Parameter	Units	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	RPD	RPD	Max
		60122217011	Spike	Spike	Result	Result	% Rec	Limits	Qual			
Calcium, Dissolved	ug/L	ND	10000	10000	9090	9040	91	90	70-130	1	20	
Magnesium, Dissolved	ug/L	ND	10000	10000	9680	9690	97	97	70-130	0	20	
Potassium, Dissolved	ug/L	ND	10000	10000	9970	9870	99	98	70-130	1	20	
Sodium, Dissolved	ug/L	ND	10000	10000	10100	9980	101	100	70-130	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1008446 1008447

Parameter	Units	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	RPD	RPD	Max
		60122217012	Spike	Spike	Result	Result	% Rec	Limits	Qual			
Calcium, Dissolved	ug/L	32400	10000	10000	41400	41700	91	94	70-130	1	20	
Magnesium, Dissolved	ug/L	4200	10000	10000	14000	14100	98	99	70-130	1	20	
Potassium, Dissolved	ug/L	784	10000	10000	10900	10900	101	101	70-130	0	20	
Sodium, Dissolved	ug/L	1770	10000	10000	11600	11600	98	98	70-130	0	20	

QUALITY CONTROL DATA

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

QC Batch:	MPRP/18245	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	200.8 Potentially Dissolved Metals
Associated Lab Samples:	60122217001, 60122217002, 60122217003, 60122217004, 60122217005, 60122217006, 60122217007, 60122217008, 60122217009, 60122217010, 60122217011, 60122217012, 60122217013, 60122217014, 60122217015, 60122217016, 60122217017, 60122217018		

METHOD BLANK: 1008298

Matrix: Water

Associated Lab Samples:	60122217001, 60122217002, 60122217003, 60122217004, 60122217005, 60122217006, 60122217007, 60122217008, 60122217009, 60122217010, 60122217011, 60122217012, 60122217013, 60122217014, 60122217015, 60122217016, 60122217017, 60122217018		
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Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	50.0	06/06/12 13:37	
Antimony, Dissolved	ug/L	ND	1.0	06/06/12 13:37	
Arsenic, Dissolved	ug/L	ND	1.0	06/06/12 13:37	
Barium, Dissolved	ug/L	ND	1.0	06/06/12 13:37	
Beryllium, Dissolved	ug/L	ND	0.50	06/06/12 13:37	
Cadmium, Dissolved	ug/L	ND	0.50	06/06/12 13:37	
Chromium, Dissolved	ug/L	0.36J	1.0	06/06/12 13:37	
Cobalt, Dissolved	ug/L	ND	1.0	06/06/12 13:37	
Copper, Dissolved	ug/L	ND	1.0	06/06/12 13:37	
Iron, Dissolved	ug/L	ND	50.0	06/06/12 13:37	
Lead, Dissolved	ug/L	ND	1.0	06/06/12 13:37	
Manganese, Dissolved	ug/L	ND	1.0	06/06/12 13:37	
Molybdenum, Dissolved	ug/L	ND	1.0	06/06/12 13:37	
Nickel, Dissolved	ug/L	0.13J	1.0	06/06/12 13:37	
Selenium, Dissolved	ug/L	ND	1.0	06/06/12 13:37	
Silver, Dissolved	ug/L	ND	0.50	06/06/12 13:37	
Thallium, Dissolved	ug/L	0.12J	1.0	06/06/12 13:37	
Vanadium, Dissolved	ug/L	ND	1.0	06/06/12 13:37	
Zinc, Dissolved	ug/L	ND	10.0	06/06/12 13:37	

LABORATORY CONTROL SAMPLE: 1008299

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	1000	968	97	85-115	
Antimony, Dissolved	ug/L	40	39.4	98	85-115	
Arsenic, Dissolved	ug/L	40	38.3	96	85-115	
Barium, Dissolved	ug/L	40	38.9	97	85-115	
Beryllium, Dissolved	ug/L	40	41.8	104	85-115	
Cadmium, Dissolved	ug/L	40	39.1	98	85-115	
Chromium, Dissolved	ug/L	40	39.5	99	85-115	
Cobalt, Dissolved	ug/L	40	38.4	96	85-115	
Copper, Dissolved	ug/L	40	38.3	96	85-115	
Iron, Dissolved	ug/L	1000	984	98	85-115	
Lead, Dissolved	ug/L	40	39.3	98	85-115	
Manganese, Dissolved	ug/L	40	39.8	99	85-115	
Molybdenum, Dissolved	ug/L	40	39.2	98	85-115	
Nickel, Dissolved	ug/L	40	38.3	96	85-115	
Selenium, Dissolved	ug/L	40	39.7	99	85-115	

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QUALITY CONTROL DATA

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

LABORATORY CONTROL SAMPLE: 1008299

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Silver, Dissolved	ug/L	20	19.6	98	85-115	
Thallium, Dissolved	ug/L	40	37.4	94	85-115	
Vanadium, Dissolved	ug/L	40	39.7	99	85-115	
Zinc, Dissolved	ug/L	40	40.3	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1008300 1008301

Parameter	Units	MS		MSD		MS Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60122217006	Spike Conc.	Spike Conc.	Result							
Aluminum, Dissolved	ug/L	20.1J	1000	1000	916	859	90	84	70-130	6	20	
Antimony, Dissolved	ug/L	0.13J	40	40	39.0	38.6	97	96	70-130	1	20	
Arsenic, Dissolved	ug/L	0.14J	40	40	39.0	38.4	97	96	70-130	2	20	
Barium, Dissolved	ug/L	19.0	40	40	57.2	56.8	95	94	70-130	1	20	
Beryllium, Dissolved	ug/L	0.094J	40	40	39.4	42.1	98	105	70-130	7	20	
Cadmium, Dissolved	ug/L	17.4	40	40	55.9	55.7	96	96	70-130	0	20	
Chromium, Dissolved	ug/L	0.72J	40	40	39.0	38.7	96	95	70-130	1	20	
Cobalt, Dissolved	ug/L	2.1	40	40	38.6	38.6	91	91	70-130	0	20	
Copper, Dissolved	ug/L	7.1	40	40	43.2	42.6	90	89	70-130	1	20	
Iron, Dissolved	ug/L	435	1000	1000	1400	1400	96	96	70-130	0	20	
Lead, Dissolved	ug/L	1.9	40	40	40.0	39.8	95	95	70-130	1	20	
Manganese, Dissolved	ug/L	1950	40	40	2040	2020	228	158	70-130	1	20	M1
Molybdenum, Dissolved	ug/L	10.1	40	40	49.6	49.1	99	98	70-130	1	20	
Nickel, Dissolved	ug/L	2.1	40	40	38.2	38.4	90	91	70-130	1	20	
Selenium, Dissolved	ug/L	ND	40	40	39.4	38.7	98	96	70-130	2	20	
Silver, Dissolved	ug/L	ND	20	20	18.7	18.3	93	92	70-130	2	20	
Thallium, Dissolved	ug/L	0.18J	40	40	36.9	36.8	92	91	70-130	0	20	
Vanadium, Dissolved	ug/L	ND	40	40	38.8	38.8	97	97	70-130	0	20	
Zinc, Dissolved	ug/L	3000	40	40	3100	3060	260	160	70-130	1	20	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1008302 1008303

Parameter	Units	MS		MSD		MS Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60122217012	Spike Conc.	Spike Conc.	Result							
Aluminum, Dissolved	ug/L	720	1000	1000	1670	1650	95	93	70-130	1	20	
Antimony, Dissolved	ug/L	0.12J	40	40	38.6	38.4	96	96	70-130	0	20	
Arsenic, Dissolved	ug/L	1.2	40	40	37.0	36.6	89	88	70-130	1	20	
Barium, Dissolved	ug/L	90.0	40	40	128	128	96	95	70-130	0	20	
Beryllium, Dissolved	ug/L	0.16J	40	40	41.9	41.5	104	103	70-130	1	20	
Cadmium, Dissolved	ug/L	0.52	40	40	38.3	38.4	94	95	70-130	0	20	
Chromium, Dissolved	ug/L	1.0	40	40	39.1	38.7	95	94	70-130	1	20	
Cobalt, Dissolved	ug/L	2.3	40	40	38.7	38.7	91	91	70-130	0	20	
Copper, Dissolved	ug/L	13.4	40	40	49.3	49.6	90	90	70-130	1	20	
Iron, Dissolved	ug/L	1640	1000	1000	2560	2590	91	95	70-130	1	20	
Lead, Dissolved	ug/L	15.2	40	40	53.4	53.1	95	95	70-130	1	20	
Manganese, Dissolved	ug/L	508	40	40	543	547	88	98	70-130	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1008302		1008303		MSD % Rec	% Rec Limits	Max RPD	Max Qual
		60122217012		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result				
			Result	Conc.	Result	Conc.	Result				
Molybdenum, Dissolved	ug/L	0.32J	40	40	35.2	34.8	87	86	70-130	1	20
Nickel, Dissolved	ug/L	3.4	40	40	39.0	39.6	89	90	70-130	1	20
Selenium, Dissolved	ug/L	ND	40	40	35.5	35.0	88	87	70-130	1	20
Silver, Dissolved	ug/L	0.27J	20	20	19.4	19.5	96	96	70-130	0	20
Thallium, Dissolved	ug/L	0.13J	40	40	36.6	36.6	91	91	70-130	0	20
Vanadium, Dissolved	ug/L	2.2	40	40	40.1	39.6	95	93	70-130	1	20
Zinc, Dissolved	ug/L	40.4	40	40	77.4	78.1	93	94	70-130	1	20

QUALITY CONTROL DATA

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

QC Batch:	MPRP/18246	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	200.8 Potentially Dissolved Metals
Associated Lab Samples:	60122217019, 60122217020, 60122217021, 60122217022, 60122217023, 60122217024, 60122217025, 60122217026, 60122217027, 60122217028		

METHOD BLANK:	1008304	Matrix:	Water
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Associated Lab Samples:	60122217019, 60122217020, 60122217021, 60122217022, 60122217023, 60122217024, 60122217025, 60122217026, 60122217027, 60122217028
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Parameter	Units	Blank Result	Reporting Limit		Qualifiers
			Analyzed		
Aluminum, Dissolved	ug/L	ND	50.0	06/07/12 14:30	
Antimony, Dissolved	ug/L	ND	1.0	06/07/12 14:30	
Arsenic, Dissolved	ug/L	ND	1.0	06/07/12 14:30	
Barium, Dissolved	ug/L	ND	1.0	06/07/12 14:30	
Beryllium, Dissolved	ug/L	ND	0.50	06/07/12 14:30	
Cadmium, Dissolved	ug/L	ND	0.50	06/07/12 14:30	
Chromium, Dissolved	ug/L	0.33J	1.0	06/07/12 14:30	
Cobalt, Dissolved	ug/L	ND	1.0	06/07/12 14:30	
Copper, Dissolved	ug/L	0.19J	1.0	06/07/12 14:30	
Iron, Dissolved	ug/L	ND	50.0	06/07/12 14:30	
Lead, Dissolved	ug/L	ND	1.0	06/07/12 14:30	
Manganese, Dissolved	ug/L	ND	1.0	06/07/12 14:30	
Molybdenum, Dissolved	ug/L	ND	1.0	06/07/12 14:30	
Nickel, Dissolved	ug/L	0.26J	1.0	06/07/12 14:30	
Selenium, Dissolved	ug/L	ND	1.0	06/07/12 14:30	
Silver, Dissolved	ug/L	ND	0.50	06/07/12 14:30	
Thallium, Dissolved	ug/L	0.099J	1.0	06/07/12 14:30	
Vanadium, Dissolved	ug/L	ND	1.0	06/07/12 14:30	
Zinc, Dissolved	ug/L	ND	10.0	06/07/12 14:30	

LABORATORY CONTROL SAMPLE:	1008305
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Parameter	Units	Spike Conc.	LCS	LCS	% Rec	Qualifiers
			Result	% Rec	Limits	
Aluminum, Dissolved	ug/L	1000	958	96	85-115	
Antimony, Dissolved	ug/L	40	39.2	98	85-115	
Arsenic, Dissolved	ug/L	40	39.5	99	85-115	
Barium, Dissolved	ug/L	40	38.8	97	85-115	
Beryllium, Dissolved	ug/L	40	41.2	103	85-115	
Cadmium, Dissolved	ug/L	40	39.3	98	85-115	
Chromium, Dissolved	ug/L	40	39.1	98	85-115	
Cobalt, Dissolved	ug/L	40	38.6	97	85-115	
Copper, Dissolved	ug/L	40	39.2	98	85-115	
Iron, Dissolved	ug/L	1000	984	98	85-115	
Lead, Dissolved	ug/L	40	39.2	98	85-115	
Manganese, Dissolved	ug/L	40	39.4	99	85-115	
Molybdenum, Dissolved	ug/L	40	39.4	98	85-115	
Nickel, Dissolved	ug/L	40	39.4	98	85-115	
Selenium, Dissolved	ug/L	40	39.2	98	85-115	
Silver, Dissolved	ug/L	20	19.6	98	85-115	
Thallium, Dissolved	ug/L	40	37.7	94	85-115	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

LABORATORY CONTROL SAMPLE: 1008305

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vanadium, Dissolved	ug/L	40	39.1	98	85-115	
Zinc, Dissolved	ug/L	40	40.3	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1008306 1008307

Parameter	Units	60122217020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
			Conc.	Conc.	Result	Result	% Rec	% Rec	RPD	RPD	RPD	Qual
Aluminum, Dissolved	ug/L	ND	1000	1000	942	938	90	90	70-130	0	20	
Antimony, Dissolved	ug/L	0.24J	40	40	39.2	39.1	97	97	70-130	0	20	
Arsenic, Dissolved	ug/L	0.64J	40	40	40.3	40.0	99	98	70-130	1	20	
Barium, Dissolved	ug/L	14.9	40	40	52.8	52.4	95	94	70-130	1	20	
Beryllium, Dissolved	ug/L	ND	40	40	39.8	39.4	99	98	70-130	1	20	
Cadmium, Dissolved	ug/L	2.4	40	40	41.6	40.8	98	96	70-130	2	20	
Chromium, Dissolved	ug/L	0.38J	40	40	39.6	39.6	98	98	70-130	0	20	
Cobalt, Dissolved	ug/L	ND	40	40	37.8	37.9	94	95	70-130	0	20	
Copper, Dissolved	ug/L	4.4	40	40	42.2	42.0	94	94	70-130	0	20	
Iron, Dissolved	ug/L	161	1000	1000	1150	1140	99	98	70-130	1	20	
Lead, Dissolved	ug/L	3.5	40	40	42.2	42.2	97	97	70-130	0	20	
Manganese, Dissolved	ug/L	16.5	40	40	55.6	56.8	98	101	70-130	2	20	
Molybdenum, Dissolved	ug/L	8.7	40	40	48.5	48.4	100	99	70-130	0	20	
Nickel, Dissolved	ug/L	ND	40	40	35.8	36.1	90	90	70-130	1	20	
Selenium, Dissolved	ug/L	8.1	40	40	48.2	46.8	100	97	70-130	3	20	
Silver, Dissolved	ug/L	ND	20	20	18.8	18.8	94	94	70-130	0	20	
Thallium, Dissolved	ug/L	0.14J	40	40	37.5	37.5	93	93	70-130	0	20	
Vanadium, Dissolved	ug/L	ND	40	40	39.9	39.6	100	99	70-130	1	20	
Zinc, Dissolved	ug/L	505	40	40	554	561	121	138	70-130	1	20	M1

QUALITY CONTROL DATA

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

QC Batch:	MT/8937	Analysis Method:	SM 2510B
QC Batch Method:	SM 2510B	Analysis Description:	2510B Specific Conductance
Associated Lab Samples:	60122217001, 60122217002, 60122217003, 60122217004, 60122217005, 60122217006, 60122217007, 60122217008		

METHOD BLANK: 1210207 Matrix: Water

Associated Lab Samples: 60122217001, 60122217002, 60122217003, 60122217004, 60122217005, 60122217006, 60122217007, 60122217008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance	umhos/cm	ND	10.0	06/04/12 11:17	

LABORATORY CONTROL SAMPLE: 1210208

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance	umhos/cm	1000	997	100	90-110	

SAMPLE DUPLICATE: 1210209

Parameter	Units	10193613004 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	315	246	25	20	D6

SAMPLE DUPLICATE: 1210210

Parameter	Units	10193615003 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	378	355	6	20	

QUALITY CONTROL DATA

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

QC Batch:	MT/8938	Analysis Method:	SM 2510B
QC Batch Method:	SM 2510B	Analysis Description:	2510B Specific Conductance
Associated Lab Samples:	60122217009, 60122217010, 60122217011, 60122217012, 60122217013, 60122217014, 60122217015, 60122217016, 60122217017, 60122217018, 60122217019, 60122217020, 60122217021, 60122217022, 60122217023, 60122217024, 60122217025, 60122217026, 60122217027, 60122217028		

METHOD BLANK: 1210212 Matrix: Water

Associated Lab Samples: 60122217009, 60122217010, 60122217011, 60122217012, 60122217013, 60122217014, 60122217015,
60122217016, 60122217017, 60122217018, 60122217019, 60122217020, 60122217021, 60122217022,
60122217023, 60122217024, 60122217025, 60122217026, 60122217027, 60122217028

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance	umhos/cm	ND	10.0	06/04/12 13:09	

LABORATORY CONTROL SAMPLE: 1210213

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance	umhos/cm	1000	964	96	90-110	

SAMPLE DUPLICATE: 1210214

Parameter	Units	60122217009 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	163	171	5	20	

SAMPLE DUPLICATE: 1210215

Parameter	Units	60122217018 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	3790	3860	2	20	

QUALITY CONTROL DATA

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

QC Batch:	WET/35350	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
Associated Lab Samples:	60122217001, 60122217012, 60122217013, 60122217016, 60122217017, 60122217018, 60122217019, 60122217020		

METHOD BLANK: 1007975 Matrix: Water

Associated Lab Samples: 60122217001, 60122217012, 60122217013, 60122217016, 60122217017, 60122217018, 60122217019, 60122217020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Carbonate (CaCO ₃)	mg/L	ND	20.0	06/04/12 10:15	
Alkalinity, Total as CaCO ₃	mg/L	ND	20.0	06/04/12 10:15	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	20.0	06/04/12 10:15	

LABORATORY CONTROL SAMPLE: 1007976

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Carbonate (CaCO ₃)	mg/L		524			
Alkalinity, Total as CaCO ₃	mg/L	500	528	106	90-110	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L		4J			

SAMPLE DUPLICATE: 1007977

Parameter	Units	60122390002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO ₃)	mg/L		ND		24	
Alkalinity, Total as CaCO ₃	mg/L		432	0	9	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L		432	0	9	

SAMPLE DUPLICATE: 1007978

Parameter	Units	60122051005 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO ₃)	mg/L	ND	ND		24	
Alkalinity, Total as CaCO ₃	mg/L	276	272	1	9	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	276	272	1	9	

QUALITY CONTROL DATA

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

QC Batch:	WET/35356	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
Associated Lab Samples:	60122217002, 60122217003, 60122217004, 60122217005, 60122217006, 60122217007, 60122217008, 60122217023, 60122217027		

METHOD BLANK: 1008174 Matrix: Water

Associated Lab Samples: 60122217002, 60122217003, 60122217004, 60122217005, 60122217006, 60122217007, 60122217008,
60122217023, 60122217027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Carbonate (CaCO ₃)	mg/L	ND	20.0	06/04/12 14:15	
Alkalinity, Total as CaCO ₃	mg/L	ND	20.0	06/04/12 14:15	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	20.0	06/04/12 14:15	

LABORATORY CONTROL SAMPLE: 1008175

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Carbonate (CaCO ₃)	mg/L		532			
Alkalinity, Total as CaCO ₃	mg/L	500	536	107	90-110	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L		ND			

SAMPLE DUPLICATE: 1008176

Parameter	Units	60121975002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO ₃)	mg/L		90.0	11	24	
Alkalinity, Total as CaCO ₃	mg/L		275	4	9	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L		185	11	9 D6	

SAMPLE DUPLICATE: 1008177

Parameter	Units	60122183002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO ₃)	mg/L	ND	ND		24	
Alkalinity, Total as CaCO ₃	mg/L	444	456	3	9	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	444	456	3	9	

QUALITY CONTROL DATA

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

QC Batch:	WET/35376	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
Associated Lab Samples:	60122217009, 60122217010, 60122217011, 60122217014, 60122217015, 60122217021, 60122217022, 60122217024, 60122217025, 60122217026, 60122217028		

METHOD BLANK: 1008539 Matrix: Water

Associated Lab Samples: 60122217009, 60122217010, 60122217011, 60122217014, 60122217015, 60122217021, 60122217022, 60122217024, 60122217025, 60122217026, 60122217028

Parameter	Units	Blank	Reporting		Qualifiers
		Result	Limit	Analyzed	
Alkalinity, Carbonate (CaCO ₃)	mg/L	ND	20.0	06/05/12 13:30	
Alkalinity, Total as CaCO ₃	mg/L	ND	20.0	06/05/12 13:30	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	20.0	06/05/12 13:30	

LABORATORY CONTROL SAMPLE: 1008540

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Alkalinity, Total as CaCO ₃	mg/L	500	528	106	90-110	

SAMPLE DUPLICATE: 1008541

Parameter	Units	60122217010	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
Alkalinity, Carbonate (CaCO ₃)	mg/L	ND	ND		24	
Alkalinity, Total as CaCO ₃	mg/L	58.0	58.0	0	9	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	58.0	58.0	0	9	

SAMPLE DUPLICATE: 1008542

Parameter	Units	60122217025	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
Alkalinity, Carbonate (CaCO ₃)	mg/L	ND	ND		24	
Alkalinity, Total as CaCO ₃	mg/L	ND	ND		9	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	ND		9	

QUALITY CONTROL DATA

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

QC Batch:	WET/35311	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
Associated Lab Samples:	60122217002, 60122217003, 60122217004, 60122217005, 60122217006, 60122217007, 60122217008, 60122217009, 60122217010, 60122217011, 60122217014, 60122217015, 60122217021, 60122217022, 60122217024, 60122217025, 60122217026, 60122217028		

METHOD BLANK: 1006700 Matrix: Water

Associated Lab Samples: 60122217002, 60122217003, 60122217004, 60122217005, 60122217006, 60122217007, 60122217008,
60122217009, 60122217010, 60122217011, 60122217014, 60122217015, 60122217021, 60122217022,
60122217024, 60122217025, 60122217026, 60122217028

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	05/31/12 16:47	

SAMPLE DUPLICATE: 1006701

Parameter	Units	60122217002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	70.0	71.0	1	17	

SAMPLE DUPLICATE: 1006702

Parameter	Units	60122217014 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	659	675	2	17	

QUALITY CONTROL DATA

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

QC Batch:	WET/35312	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
Associated Lab Samples:	60122217001, 60122217012, 60122217013, 60122217016, 60122217017, 60122217018, 60122217019, 60122217020, 60122217023, 60122217027		

METHOD BLANK:	1006703	Matrix:	Water
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Associated Lab Samples:	60122217001, 60122217012, 60122217013, 60122217016, 60122217017, 60122217018, 60122217019, 60122217020, 60122217023, 60122217027		
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Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	05/31/12 16:53	

SAMPLE DUPLICATE: 1006704

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	381	298	24	17	D6

SAMPLE DUPLICATE: 1006705

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L		841	0	17	

QUALITY CONTROL DATA

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

QC Batch:	WET/35299	Analysis Method:	SM 2540D
QC Batch Method:	SM 2540D	Analysis Description:	2540D Total Suspended Solids
Associated Lab Samples:	60122217001, 60122217012, 60122217013, 60122217016, 60122217017, 60122217018, 60122217019, 60122217020, 60122217023, 60122217027		

METHOD BLANK:	1006293	Matrix:	Water
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Associated Lab Samples:	60122217001, 60122217012, 60122217013, 60122217016, 60122217017, 60122217018, 60122217019, 60122217020, 60122217023, 60122217027		
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Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	05/31/12 10:36	

SAMPLE DUPLICATE: 1006294

Parameter	Units	60122033001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND			25	

SAMPLE DUPLICATE: 1006295

Parameter	Units	60122060001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	25.0	28.0	11	25	

QUALITY CONTROL DATA

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

QC Batch:	WET/35306	Analysis Method:	SM 2540D
QC Batch Method:	SM 2540D	Analysis Description:	2540D Total Suspended Solids
Associated Lab Samples:	60122217002, 60122217003, 60122217004, 60122217005, 60122217006, 60122217007, 60122217008, 60122217009, 60122217010, 60122217011, 60122217014, 60122217015, 60122217021, 60122217022, 60122217024, 60122217025, 60122217026, 60122217028		

METHOD BLANK: 1006580 Matrix: Water

Associated Lab Samples: 60122217002, 60122217003, 60122217004, 60122217005, 60122217006, 60122217007, 60122217008,
60122217009, 60122217010, 60122217011, 60122217014, 60122217015, 60122217021, 60122217022,
60122217024, 60122217025, 60122217026, 60122217028

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	05/31/12 14:56	

SAMPLE DUPLICATE: 1006581

Parameter	Units	60122217002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	ND		25	

SAMPLE DUPLICATE: 1006582

Parameter	Units	60122217014 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	41.0	44.0	7	25	

QUALITY CONTROL DATA

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

QC Batch:	WET/35308	Analysis Method:	SM 4500-S-2 D
QC Batch Method:	SM 4500-S-2 D	Analysis Description:	4500S2D Sulfide, Total
Associated Lab Samples:	60122217001, 60122217012, 60122217013, 60122217016, 60122217017, 60122217018, 60122217019, 60122217020, 60122217023, 60122217027		

METHOD BLANK: 1006593 Matrix: Water

Associated Lab Samples: 60122217001, 60122217012, 60122217013, 60122217016, 60122217017, 60122217018, 60122217019,
60122217020, 60122217023, 60122217027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	05/31/12 07:34	

LABORATORY CONTROL SAMPLE: 1006594

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.51	102	80-120	

MATRIX SPIKE SAMPLE: 1006595

Parameter	Units	60122217012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.53	107	75-125	H1

SAMPLE DUPLICATE: 1006596

Parameter	Units	60122217027 Result	Dup Result	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND	20	H1

QUALITY CONTROL DATA

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

QC Batch:	WET/35309	Analysis Method:	SM 4500-S-2 D
QC Batch Method:	SM 4500-S-2 D	Analysis Description:	4500S2D Sulfide, Total
Associated Lab Samples:	60122217002, 60122217003, 60122217004, 60122217005, 60122217006, 60122217007, 60122217008, 60122217009, 60122217010, 60122217011, 60122217014, 60122217015, 60122217021, 60122217022, 60122217024, 60122217025, 60122217026, 60122217028		

METHOD BLANK: 1006598 Matrix: Water

Associated Lab Samples: 60122217002, 60122217003, 60122217004, 60122217005, 60122217006, 60122217007, 60122217008,
60122217009, 60122217010, 60122217011, 60122217014, 60122217015, 60122217021, 60122217022,
60122217024, 60122217025, 60122217026, 60122217028

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	05/31/12 05:41	

LABORATORY CONTROL SAMPLE: 1006599

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.50	101	80-120	

MATRIX SPIKE SAMPLE: 1006600

Parameter	Units	60122217002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.55	110	75-125	

SAMPLE DUPLICATE: 1006601

Parameter	Units	60122217028 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

QUALITY CONTROL DATA

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

QC Batch:	WETA/20420	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
Associated Lab Samples:	60122217001, 60122217002, 60122217003, 60122217004, 60122217005, 60122217006, 60122217007, 60122217008, 60122217009, 60122217010, 60122217011, 60122217012, 60122217013		

METHOD BLANK: 1008281 Matrix: Water

Associated Lab Samples: 60122217011, 60122217013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	1.0	06/04/12 22:30	

METHOD BLANK: 1010093 Matrix: Water

Associated Lab Samples: 60122217001, 60122217002, 60122217003, 60122217004, 60122217005, 60122217006, 60122217007,
60122217008, 60122217009, 60122217010, 60122217012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	1.0	06/06/12 08:58	

LABORATORY CONTROL SAMPLE: 1008282

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	5	5.1	101	90-110	

LABORATORY CONTROL SAMPLE: 1010094

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	5	4.9	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1008283 1008284

Parameter	Units	Result	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Max
			Spike Conc.	Spike Conc.							
Sulfate	mg/L	500	500	500	1460	1470	44	45	61-119	0	10 M6

MATRIX SPIKE SAMPLE: 1008285

Parameter	Units	Result	60122217006	Spike	MS	MS	% Rec	Qualifiers
			Result	Conc.	Result	% Rec	Limits	
Sulfate	mg/L	799	250	250	1010	83	61-119	

QUALITY CONTROL DATA

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

QC Batch:	WETA/20447	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
Associated Lab Samples:	60122217014, 60122217015, 60122217016, 60122217017, 60122217018, 60122217019, 60122217020, 60122217021, 60122217022, 60122217023, 60122217024, 60122217025, 60122217026, 60122217027, 60122217028		

METHOD BLANK: 1009342 Matrix: Water

Associated Lab Samples: 60122217014, 60122217015, 60122217016, 60122217017, 60122217018, 60122217019, 60122217020, 60122217021, 60122217022, 60122217023, 60122217024, 60122217025, 60122217026, 60122217027, 60122217028

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
Sulfate	mg/L	ND	1.0	06/07/12 19:10	

LABORATORY CONTROL SAMPLE: 1009343

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Sulfate	mg/L	5	5.1	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1009344 1009345

Parameter	Units	60122217014	MS	MSD	MS	MSD	MSD	% Rec	% Rec	Max	RPD	RPD	Qual
		Result	Spike	Spike									
Sulfate	mg/L	392	250	250	703	672	124	112	61-119	4	10	M6	

MATRIX SPIKE SAMPLE: 1009346

Parameter	Units	60122217023		Spike	MS	MS	% Rec	% Rec	Qualifiers
		Result	Conc.	Conc.	Result	% Rec	Limits		
Sulfate	mg/L	493	250	250	786	117	61-119		

QUALITY CONTROL DATA

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

QC Batch:	WETA/20392	Analysis Method:	SM 4500-CN-E
QC Batch Method:	SM 4500-CN-E	Analysis Description:	4500CNE Cyanide, Total
Associated Lab Samples:	60122217001, 60122217002, 60122217003, 60122217004, 60122217005, 60122217006, 60122217007, 60122217008, 60122217009, 60122217012, 60122217013, 60122217016, 60122217017, 60122217018, 60122217019, 60122217020, 60122217023, 60122217027		

METHOD BLANK: 1006964 Matrix: Water

Associated Lab Samples: 60122217001, 60122217002, 60122217003, 60122217004, 60122217005, 60122217006, 60122217007,
60122217008, 60122217009, 60122217012, 60122217013, 60122217016, 60122217017, 60122217018,
60122217019, 60122217020, 60122217023, 60122217027

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
Cyanide	mg/L	ND	0.0050	06/01/12 17:49	

LABORATORY CONTROL SAMPLE: 1006965

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Cyanide	mg/L	.1	0.10	102	69-126	

MATRIX SPIKE SAMPLE: 1006966

Parameter	Units	60122337001	Spike	MS	MS	% Rec	Qualifiers
		Result	Conc.	Result	% Rec	Limits	
Cyanide	mg/L		.1	0.097	94	41-136	

MATRIX SPIKE SAMPLE: 1006967

Parameter	Units	60122217001	Spike	MS	MS	% Rec	Qualifiers
		Result	Conc.	Result	% Rec	Limits	
Cyanide	mg/L	ND	.1	0.13	129	41-136	

SAMPLE DUPLICATE: 1006968

Parameter	Units	60122217012	Dup	Max	Qualifiers
		Result	Result	RPD	
Cyanide	mg/L	ND	ND	26	

QUALITY CONTROL DATA

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

QC Batch:	WETA/20393	Analysis Method:	SM 4500-CN-E
QC Batch Method:	SM 4500-CN-E	Analysis Description:	4500CNE Cyanide, Total
Associated Lab Samples:	60122217010, 60122217011, 60122217014, 60122217015, 60122217021, 60122217022, 60122217024, 60122217025, 60122217026, 60122217028		

METHOD BLANK: 1006972 Matrix: Water

Associated Lab Samples: 60122217010, 60122217011, 60122217014, 60122217015, 60122217021, 60122217022, 60122217024,
60122217025, 60122217026, 60122217028

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	ND	0.0050	06/01/12 18:21	

LABORATORY CONTROL SAMPLE: 1006973

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.11	105	69-126	

MATRIX SPIKE SAMPLE: 1006974

Parameter	Units	60122217010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	0.015	.1	0.11	98	41-136	

MATRIX SPIKE SAMPLE: 1006975

Parameter	Units	60122217014 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	ND	.1	0.10	100	41-136	

SAMPLE DUPLICATE: 1006976

Parameter	Units	60122217015 Result	Dup Result	Max RPD	Qualifiers
Cyanide	mg/L	ND	ND	26	

QUALITY CONTROL DATA

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

QC Batch: WETA/20469

Analysis Method: SM 5310C

QC Batch Method: SM 5310C

Analysis Description: 5310C Total Organic Carbon

Associated Lab Samples: 60122217001, 60122217002, 60122217003, 60122217004, 60122217005, 60122217006, 60122217007,
60122217008, 60122217009, 60122217010, 60122217011, 60122217012, 60122217013

METHOD BLANK: 1010294

Matrix: Water

Associated Lab Samples: 60122217001, 60122217002, 60122217003, 60122217004, 60122217005, 60122217006, 60122217007,
60122217008, 60122217009, 60122217010, 60122217011, 60122217012, 60122217013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	06/08/12 09:03	

LABORATORY CONTROL SAMPLE: 1010295

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.4	109	80-120	

MATRIX SPIKE SAMPLE: 1010296

Parameter	Units	60122217001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	4.2	5	9.5	106	80-120	

SAMPLE DUPLICATE: 1010297

Parameter	Units	60122217002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	4.1	4.2	2	25	

QUALITY CONTROL DATA

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

QC Batch:	WETA/20497	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Total Organic Carbon
Associated Lab Samples:	60122217014, 60122217015, 60122217016, 60122217017, 60122217018, 60122217019, 60122217020, 60122217021, 60122217022, 60122217023, 60122217024, 60122217025, 60122217026, 60122217027, 60122217028		

METHOD BLANK: 1011869 Matrix: Water

Associated Lab Samples: 60122217014, 60122217015, 60122217016, 60122217018, 60122217019, 60122217020, 60122217021,
60122217022, 60122217023, 60122217024, 60122217025, 60122217026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	06/12/12 08:19	

METHOD BLANK: 1013213 Matrix: Water

Associated Lab Samples: 60122217017, 60122217027, 60122217028

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	06/13/12 08:18	

LABORATORY CONTROL SAMPLE: 1011870

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.1	101	80-120	

LABORATORY CONTROL SAMPLE: 1013214

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.0	100	80-120	

MATRIX SPIKE SAMPLE: 1011871

Parameter	Units	60122217014 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	ND	5	5.5	96	80-120	

SAMPLE DUPLICATE: 1011872

Parameter	Units	60122217015 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	ND	.47J		25	

QUALIFIERS

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-K Pace Analytical Services - Kansas City

PASI-M Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

CH The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

D6 The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

E Analyte concentration exceeded the calibration range. The reported result is estimated.

H1 Analysis conducted outside the EPA method holding time.

J Analyte detected below reporting limit, therefore result is an estimate.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

P8 Analyte was detected in the method blank. All associated samples had concentrations of at least ten times greater than the blank or were below the reporting limit.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MAY 2012 RICO WATER SAMPLING
Pace Project No.: 60122217

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60122217001	DR-1 20120523	EPA 200.7	MPRP/18247	EPA 200.7	ICP/15315
60122217002	DR-2 20120524	EPA 200.7	MPRP/18247	EPA 200.7	ICP/15315
60122217003	DR-3 20120524	EPA 200.7	MPRP/18247	EPA 200.7	ICP/15315
60122217004	DR-4 20120524	EPA 200.7	MPRP/18247	EPA 200.7	ICP/15315
60122217005	DR-5 20120524	EPA 200.7	MPRP/18247	EPA 200.7	ICP/15315
60122217006	DR-6 20120524	EPA 200.7	MPRP/18247	EPA 200.7	ICP/15315
60122217007	DR-7 20120524	EPA 200.7	MPRP/18247	EPA 200.7	ICP/15315
60122217008	DR-8 20120524	EPA 200.7	MPRP/18247	EPA 200.7	ICP/15315
60122217009	DR-4 SW 20120524	EPA 200.7	MPRP/18247	EPA 200.7	ICP/15315
60122217010	DR-G 20120524	EPA 200.7	MPRP/18247	EPA 200.7	ICP/15315
60122217011	FB 20120524	EPA 200.7	MPRP/18248	EPA 200.7	ICP/15314
60122217012	GW-1 20120523	EPA 200.7	MPRP/18248	EPA 200.7	ICP/15314
60122217013	GW-3 20120523	EPA 200.7	MPRP/18248	EPA 200.7	ICP/15314
60122217014	GW-4 20120524	EPA 200.7	MPRP/18248	EPA 200.7	ICP/15314
60122217015	GW-5 20120524	EPA 200.7	MPRP/18248	EPA 200.7	ICP/15314
60122217016	GW-7 20120523	EPA 200.7	MPRP/18248	EPA 200.7	ICP/15314
60122217017	EB-1 20120523	EPA 200.7	MPRP/18248	EPA 200.7	ICP/15314
60122217018	EB-2 20120523	EPA 200.7	MPRP/18248	EPA 200.7	ICP/15314
60122217019	MW-1 SHALLOW 20120523	EPA 200.7	MPRP/18248	EPA 200.7	ICP/15314
60122217020	MW-1 DEEP 20120523	EPA 200.7	MPRP/18248	EPA 200.7	ICP/15314
60122217021	MW-2 DEEP 20120524	EPA 200.7	MPRP/18248	EPA 200.7	ICP/15314
60122217022	MW-3 DEEP 20120524	EPA 200.7	MPRP/18248	EPA 200.7	ICP/15314
60122217023	MW-4 SHALLOW 20120523	EPA 200.7	MPRP/18248	EPA 200.7	ICP/15314
60122217024	MW-4 DEEP 20120523	EPA 200.7	MPRP/18248	EPA 200.7	ICP/15314
60122217025	MW-5 SHALLOW 20120524	EPA 200.7	MPRP/18248	EPA 200.7	ICP/15314
60122217026	MW-5 DEEP 20120524	EPA 200.7	MPRP/18248	EPA 200.7	ICP/15314
60122217027	MW-6 SHALLOW 20120523	EPA 200.7	MPRP/18248	EPA 200.7	ICP/15314
60122217028	MW-6 DEEP 20120523	EPA 200.7	MPRP/18248	EPA 200.7	ICP/15314
60122217001	DR-1 20120523	EPA 200.8	ICPM/32781	EPA 200.8	ICPM/13018
60122217002	DR-2 20120524	EPA 200.8	ICPM/32781	EPA 200.8	ICPM/13018
60122217003	DR-3 20120524	EPA 200.8	ICPM/32781	EPA 200.8	ICPM/13018
60122217004	DR-4 20120524	EPA 200.8	ICPM/32781	EPA 200.8	ICPM/13018
60122217005	DR-5 20120524	EPA 200.8	ICPM/32781	EPA 200.8	ICPM/13018
60122217006	DR-6 20120524	EPA 200.8	ICPM/32781	EPA 200.8	ICPM/13018
60122217007	DR-7 20120524	EPA 200.8	ICPM/32781	EPA 200.8	ICPM/13018
60122217008	DR-8 20120524	EPA 200.8	ICPM/32781	EPA 200.8	ICPM/13018
60122217009	DR-4 SW 20120524	EPA 200.8	ICPM/32781	EPA 200.8	ICPM/13018
60122217010	DR-G 20120524	EPA 200.8	ICPM/32781	EPA 200.8	ICPM/13018
60122217011	FB 20120524	EPA 200.8	ICPM/32781	EPA 200.8	ICPM/13018
60122217012	GW-1 20120523	EPA 200.8	ICPM/32781	EPA 200.8	ICPM/13018
60122217013	GW-3 20120523	EPA 200.8	ICPM/32781	EPA 200.8	ICPM/13018
60122217014	GW-4 20120524	EPA 200.8	ICPM/32781	EPA 200.8	ICPM/13018
60122217015	GW-5 20120524	EPA 200.8	ICPM/32781	EPA 200.8	ICPM/13018
60122217016	GW-7 20120523	EPA 200.8	ICPM/32781	EPA 200.8	ICPM/13018
60122217017	EB-1 20120523	EPA 200.8	ICPM/32781	EPA 200.8	ICPM/13018
60122217018	EB-2 20120523	EPA 200.8	ICPM/32781	EPA 200.8	ICPM/13018
60122217019	MW-1 SHALLOW 20120523	EPA 200.8	ICPM/32781	EPA 200.8	ICPM/13018
60122217020	MW-1 DEEP 20120523	EPA 200.8	ICPM/32781	EPA 200.8	ICPM/13018

Date: 07/12/2012 02:58 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60122217021	MW-2 DEEP 20120524	EPA 200.8	ICPM/32834	EPA 200.8	ICPM/12986
60122217022	MW-3 DEEP 20120524	EPA 200.8	ICPM/32834	EPA 200.8	ICPM/12986
60122217023	MW-4 SHALLOW 20120523	EPA 200.8	ICPM/32834	EPA 200.8	ICPM/12986
60122217024	MW-4 DEEP 20120523	EPA 200.8	ICPM/32834	EPA 200.8	ICPM/12986
60122217025	MW-5 SHALLOW 20120524	EPA 200.8	ICPM/32834	EPA 200.8	ICPM/12986
60122217026	MW-5 DEEP 20120524	EPA 200.8	ICPM/32834	EPA 200.8	ICPM/12986
60122217027	MW-6 SHALLOW 20120523	EPA 200.8	ICPM/32834	EPA 200.8	ICPM/12986
60122217028	MW-6 DEEP 20120523	EPA 200.8	ICPM/32834	EPA 200.8	ICPM/12986
60122217001	DR-1 20120523	EPA 200.8	ICPM/32777	EPA 200.8	ICPM/13011
60122217002	DR-2 20120524	EPA 200.8	ICPM/32777	EPA 200.8	ICPM/13011
60122217003	DR-3 20120524	EPA 200.8	ICPM/32777	EPA 200.8	ICPM/13011
60122217004	DR-4 20120524	EPA 200.8	ICPM/32777	EPA 200.8	ICPM/13011
60122217005	DR-5 20120524	EPA 200.8	ICPM/32777	EPA 200.8	ICPM/13011
60122217006	DR-6 20120524	EPA 200.8	ICPM/32777	EPA 200.8	ICPM/13011
60122217007	DR-7 20120524	EPA 200.8	ICPM/32777	EPA 200.8	ICPM/13011
60122217008	DR-8 20120524	EPA 200.8	ICPM/32777	EPA 200.8	ICPM/13011
60122217009	DR-4 SW 20120524	EPA 200.8	ICPM/32777	EPA 200.8	ICPM/13011
60122217010	DR-G 20120524	EPA 200.8	ICPM/32777	EPA 200.8	ICPM/13011
60122217011	FB 20120524	EPA 200.8	ICPM/32777	EPA 200.8	ICPM/13011
60122217012	GW-1 20120523	EPA 200.8	ICPM/32777	EPA 200.8	ICPM/13011
60122217013	GW-3 20120523	EPA 200.8	ICPM/32777	EPA 200.8	ICPM/13011
60122217014	GW-4 20120524	EPA 200.8	ICPM/32777	EPA 200.8	ICPM/13011
60122217015	GW-5 20120524	EPA 200.8	ICPM/32777	EPA 200.8	ICPM/13011
60122217016	GW-7 20120523	EPA 200.8	ICPM/32777	EPA 200.8	ICPM/13011
60122217017	EB-1 20120523	EPA 200.8	ICPM/32777	EPA 200.8	ICPM/13011
60122217018	EB-2 20120523	EPA 200.8	ICPM/32777	EPA 200.8	ICPM/13011
60122217019	MW-1 SHALLOW 20120523	EPA 200.8	ICPM/32777	EPA 200.8	ICPM/13011
60122217020	MW-1 DEEP 20120523	EPA 200.8	ICPM/32777	EPA 200.8	ICPM/13011
60122217021	MW-2 DEEP 20120524	EPA 200.8	ICPM/32832	EPA 200.8	ICPM/12975
60122217022	MW-3 DEEP 20120524	EPA 200.8	ICPM/32832	EPA 200.8	ICPM/12975
60122217023	MW-4 SHALLOW 20120523	EPA 200.8	ICPM/32832	EPA 200.8	ICPM/12975
60122217024	MW-4 DEEP 20120523	EPA 200.8	ICPM/32832	EPA 200.8	ICPM/12975
60122217025	MW-5 SHALLOW 20120524	EPA 200.8	ICPM/32832	EPA 200.8	ICPM/12975
60122217026	MW-5 DEEP 20120524	EPA 200.8	ICPM/32832	EPA 200.8	ICPM/12975
60122217027	MW-6 SHALLOW 20120523	EPA 200.8	ICPM/32832	EPA 200.8	ICPM/12975
60122217028	MW-6 DEEP 20120523	EPA 200.8	ICPM/32832	EPA 200.8	ICPM/12975
60122217001	DR-1 20120523	EPA 200.8	MPRP/18245	EPA 200.8	ICPM/1432
60122217002	DR-2 20120524	EPA 200.8	MPRP/18245	EPA 200.8	ICPM/1432
60122217003	DR-3 20120524	EPA 200.8	MPRP/18245	EPA 200.8	ICPM/1432
60122217004	DR-4 20120524	EPA 200.8	MPRP/18245	EPA 200.8	ICPM/1432
60122217005	DR-5 20120524	EPA 200.8	MPRP/18245	EPA 200.8	ICPM/1432
60122217006	DR-6 20120524	EPA 200.8	MPRP/18245	EPA 200.8	ICPM/1432
60122217007	DR-7 20120524	EPA 200.8	MPRP/18245	EPA 200.8	ICPM/1432
60122217008	DR-8 20120524	EPA 200.8	MPRP/18245	EPA 200.8	ICPM/1432
60122217009	DR-4 SW 20120524	EPA 200.8	MPRP/18245	EPA 200.8	ICPM/1432
60122217010	DR-G 20120524	EPA 200.8	MPRP/18245	EPA 200.8	ICPM/1432
60122217011	FB 20120524	EPA 200.8	MPRP/18245	EPA 200.8	ICPM/1432

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MAY 2012 RICO WATER SAMPLING
Pace Project No.: 60122217

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60122217012	GW-1 20120523	EPA 200.8	MPRP/18245	EPA 200.8	ICPM/1432
60122217013	GW-3 20120523	EPA 200.8	MPRP/18245	EPA 200.8	ICPM/1432
60122217014	GW-4 20120524	EPA 200.8	MPRP/18245	EPA 200.8	ICPM/1432
60122217015	GW-5 20120524	EPA 200.8	MPRP/18245	EPA 200.8	ICPM/1432
60122217016	GW-7 20120523	EPA 200.8	MPRP/18245	EPA 200.8	ICPM/1432
60122217017	EB-1 20120523	EPA 200.8	MPRP/18245	EPA 200.8	ICPM/1432
60122217018	EB-2 20120523	EPA 200.8	MPRP/18245	EPA 200.8	ICPM/1432
60122217019	MW-1 SHALLOW 20120523	EPA 200.8	MPRP/18246	EPA 200.8	ICPM/1433
60122217020	MW-1 DEEP 20120523	EPA 200.8	MPRP/18246	EPA 200.8	ICPM/1433
60122217021	MW-2 DEEP 20120524	EPA 200.8	MPRP/18246	EPA 200.8	ICPM/1433
60122217022	MW-3 DEEP 20120524	EPA 200.8	MPRP/18246	EPA 200.8	ICPM/1433
60122217023	MW-4 SHALLOW 20120523	EPA 200.8	MPRP/18246	EPA 200.8	ICPM/1433
60122217024	MW-4 DEEP 20120523	EPA 200.8	MPRP/18246	EPA 200.8	ICPM/1433
60122217025	MW-5 SHALLOW 20120524	EPA 200.8	MPRP/18246	EPA 200.8	ICPM/1433
60122217026	MW-5 DEEP 20120524	EPA 200.8	MPRP/18246	EPA 200.8	ICPM/1433
60122217027	MW-6 SHALLOW 20120523	EPA 200.8	MPRP/18246	EPA 200.8	ICPM/1433
60122217028	MW-6 DEEP 20120523	EPA 200.8	MPRP/18246	EPA 200.8	ICPM/1433
60122217001	DR-1 20120523	EPA 245.1	MERP/6330	EPA 245.1	MERC/6292
60122217002	DR-2 20120524	EPA 245.1	MERP/6330	EPA 245.1	MERC/6292
60122217003	DR-3 20120524	EPA 245.1	MERP/6330	EPA 245.1	MERC/6292
60122217004	DR-4 20120524	EPA 245.1	MERP/6330	EPA 245.1	MERC/6292
60122217005	DR-5 20120524	EPA 245.1	MERP/6330	EPA 245.1	MERC/6292
60122217006	DR-6 20120524	EPA 245.1	MERP/6330	EPA 245.1	MERC/6292
60122217007	DR-7 20120524	EPA 245.1	MERP/6330	EPA 245.1	MERC/6292
60122217008	DR-8 20120524	EPA 245.1	MERP/6330	EPA 245.1	MERC/6292
60122217009	DR-4 SW 20120524	EPA 245.1	MERP/6330	EPA 245.1	MERC/6292
60122217010	DR-G 20120524	EPA 245.1	MERP/6330	EPA 245.1	MERC/6292
60122217011	FB 20120524	EPA 245.1	MERP/6330	EPA 245.1	MERC/6292
60122217012	GW-1 20120523	EPA 245.1	MERP/6330	EPA 245.1	MERC/6292
60122217013	GW-3 20120523	EPA 245.1	MERP/6330	EPA 245.1	MERC/6292
60122217014	GW-4 20120524	EPA 245.1	MERP/6330	EPA 245.1	MERC/6292
60122217015	GW-5 20120524	EPA 245.1	MERP/6330	EPA 245.1	MERC/6292
60122217016	GW-7 20120523	EPA 245.1	MERP/6330	EPA 245.1	MERC/6292
60122217017	EB-1 20120523	EPA 245.1	MERP/6330	EPA 245.1	MERC/6292
60122217018	EB-2 20120523	EPA 245.1	MERP/6330	EPA 245.1	MERC/6292
60122217019	MW-1 SHALLOW 20120523	EPA 245.1	MERP/6330	EPA 245.1	MERC/6292
60122217020	MW-1 DEEP 20120523	EPA 245.1	MERP/6330	EPA 245.1	MERC/6292
60122217021	MW-2 DEEP 20120524	EPA 245.1	MERP/6331	EPA 245.1	MERC/6291
60122217022	MW-3 DEEP 20120524	EPA 245.1	MERP/6331	EPA 245.1	MERC/6291
60122217023	MW-4 SHALLOW 20120523	EPA 245.1	MERP/6331	EPA 245.1	MERC/6291
60122217024	MW-4 DEEP 20120523	EPA 245.1	MERP/6331	EPA 245.1	MERC/6291
60122217025	MW-5 SHALLOW 20120524	EPA 245.1	MERP/6331	EPA 245.1	MERC/6291
60122217026	MW-5 DEEP 20120524	EPA 245.1	MERP/6331	EPA 245.1	MERC/6291
60122217027	MW-6 SHALLOW 20120523	EPA 245.1	MERP/6331	EPA 245.1	MERC/6291
60122217028	MW-6 DEEP 20120523	EPA 245.1	MERP/6331	EPA 245.1	MERC/6291
60122217001	DR-1 20120523	EPA 245.1	MERP/6326	EPA 245.1	MERC/6290
60122217002	DR-2 20120524	EPA 245.1	MERP/6326	EPA 245.1	MERC/6290

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Project: MAY 2012 RICO WATER SAMPLING
Pace Project No.: 60122217

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60122217003	DR-3 20120524	EPA 245.1	MERP/6326	EPA 245.1	MERC/6290
60122217004	DR-4 20120524	EPA 245.1	MERP/6326	EPA 245.1	MERC/6290
60122217005	DR-5 20120524	EPA 245.1	MERP/6326	EPA 245.1	MERC/6290
60122217006	DR-6 20120524	EPA 245.1	MERP/6326	EPA 245.1	MERC/6290
60122217007	DR-7 20120524	EPA 245.1	MERP/6326	EPA 245.1	MERC/6290
60122217008	DR-8 20120524	EPA 245.1	MERP/6326	EPA 245.1	MERC/6290
60122217009	DR-4 SW 20120524	EPA 245.1	MERP/6326	EPA 245.1	MERC/6290
60122217010	DR-G 20120524	EPA 245.1	MERP/6326	EPA 245.1	MERC/6290
60122217011	FB 20120524	EPA 245.1	MERP/6326	EPA 245.1	MERC/6290
60122217012	GW-1 20120523	EPA 245.1	MERP/6326	EPA 245.1	MERC/6290
60122217013	GW-3 20120523	EPA 245.1	MERP/6326	EPA 245.1	MERC/6290
60122217014	GW-4 20120524	EPA 245.1	MERP/6326	EPA 245.1	MERC/6290
60122217015	GW-5 20120524	EPA 245.1	MERP/6326	EPA 245.1	MERC/6290
60122217016	GW-7 20120523	EPA 245.1	MERP/6326	EPA 245.1	MERC/6290
60122217017	EB-1 20120523	EPA 245.1	MERP/6326	EPA 245.1	MERC/6290
60122217018	EB-2 20120523	EPA 245.1	MERP/6326	EPA 245.1	MERC/6290
60122217019	MW-1 SHALLOW 20120523	EPA 245.1	MERP/6326	EPA 245.1	MERC/6290
60122217020	MW-1 DEEP 20120523	EPA 245.1	MERP/6326	EPA 245.1	MERC/6290
60122217021	MW-2 DEEP 20120524	EPA 245.1	MERP/6327	EPA 245.1	MERC/6289
60122217022	MW-3 DEEP 20120524	EPA 245.1	MERP/6327	EPA 245.1	MERC/6289
60122217023	MW-4 SHALLOW 20120523	EPA 245.1	MERP/6327	EPA 245.1	MERC/6289
60122217024	MW-4 DEEP 20120523	EPA 245.1	MERP/6327	EPA 245.1	MERC/6289
60122217025	MW-5 SHALLOW 20120524	EPA 245.1	MERP/6327	EPA 245.1	MERC/6289
60122217026	MW-5 DEEP 20120524	EPA 245.1	MERP/6327	EPA 245.1	MERC/6289
60122217027	MW-6 SHALLOW 20120523	EPA 245.1	MERP/6327	EPA 245.1	MERC/6289
60122217028	MW-6 DEEP 20120523	EPA 245.1	MERP/6327	EPA 245.1	MERC/6289
60122217001	DR-1 20120523	EPA 245.1	MERP/6328	EPA 245.1	MERC/6297
60122217002	DR-2 20120524	EPA 245.1	MERP/6328	EPA 245.1	MERC/6297
60122217003	DR-3 20120524	EPA 245.1	MERP/6328	EPA 245.1	MERC/6297
60122217004	DR-4 20120524	EPA 245.1	MERP/6328	EPA 245.1	MERC/6297
60122217005	DR-5 20120524	EPA 245.1	MERP/6328	EPA 245.1	MERC/6297
60122217006	DR-6 20120524	EPA 245.1	MERP/6328	EPA 245.1	MERC/6297
60122217007	DR-7 20120524	EPA 245.1	MERP/6328	EPA 245.1	MERC/6297
60122217008	DR-8 20120524	EPA 245.1	MERP/6328	EPA 245.1	MERC/6297
60122217009	DR-4 SW 20120524	EPA 245.1	MERP/6328	EPA 245.1	MERC/6297
60122217010	DR-G 20120524	EPA 245.1	MERP/6328	EPA 245.1	MERC/6297
60122217011	FB 20120524	EPA 245.1	MERP/6328	EPA 245.1	MERC/6297
60122217012	GW-1 20120523	EPA 245.1	MERP/6328	EPA 245.1	MERC/6297
60122217013	GW-3 20120523	EPA 245.1	MERP/6328	EPA 245.1	MERC/6297
60122217014	GW-4 20120524	EPA 245.1	MERP/6328	EPA 245.1	MERC/6297
60122217015	GW-5 20120524	EPA 245.1	MERP/6328	EPA 245.1	MERC/6297
60122217016	GW-7 20120523	EPA 245.1	MERP/6328	EPA 245.1	MERC/6297
60122217017	EB-1 20120523	EPA 245.1	MERP/6328	EPA 245.1	MERC/6297
60122217018	EB-2 20120523	EPA 245.1	MERP/6328	EPA 245.1	MERC/6297
60122217019	MW-1 SHALLOW 20120523	EPA 245.1	MERP/6328	EPA 245.1	MERC/6297
60122217020	MW-1 DEEP 20120523	EPA 245.1	MERP/6328	EPA 245.1	MERC/6297
60122217021	MW-2 DEEP 20120524	EPA 245.1	MERP/6329	EPA 245.1	MERC/6298

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MAY 2012 RICO WATER SAMPLING
Pace Project No.: 60122217

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60122217022	MW-3 DEEP 20120524	EPA 245.1	MERP/6329	EPA 245.1	MERC/6298
60122217023	MW-4 SHALLOW 20120523	EPA 245.1	MERP/6329	EPA 245.1	MERC/6298
60122217024	MW-4 DEEP 20120523	EPA 245.1	MERP/6329	EPA 245.1	MERC/6298
60122217025	MW-5 SHALLOW 20120524	EPA 245.1	MERP/6329	EPA 245.1	MERC/6298
60122217026	MW-5 DEEP 20120524	EPA 245.1	MERP/6329	EPA 245.1	MERC/6298
60122217027	MW-6 SHALLOW 20120523	EPA 245.1	MERP/6329	EPA 245.1	MERC/6298
60122217028	MW-6 DEEP 20120523	EPA 245.1	MERP/6329	EPA 245.1	MERC/6298
60122217001	DR-1 20120523	SM 2510B	MT/8937		
60122217002	DR-2 20120524	SM 2510B	MT/8937		
60122217003	DR-3 20120524	SM 2510B	MT/8937		
60122217004	DR-4 20120524	SM 2510B	MT/8937		
60122217005	DR-5 20120524	SM 2510B	MT/8937		
60122217006	DR-6 20120524	SM 2510B	MT/8937		
60122217007	DR-7 20120524	SM 2510B	MT/8937		
60122217008	DR-8 20120524	SM 2510B	MT/8937		
60122217009	DR-4 SW 20120524	SM 2510B	MT/8938		
60122217010	DR-G 20120524	SM 2510B	MT/8938		
60122217011	FB 20120524	SM 2510B	MT/8938		
60122217012	GW-1 20120523	SM 2510B	MT/8938		
60122217013	GW-3 20120523	SM 2510B	MT/8938		
60122217014	GW-4 20120524	SM 2510B	MT/8938		
60122217015	GW-5 20120524	SM 2510B	MT/8938		
60122217016	GW-7 20120523	SM 2510B	MT/8938		
60122217017	EB-1 20120523	SM 2510B	MT/8938		
60122217018	EB-2 20120523	SM 2510B	MT/8938		
60122217019	MW-1 SHALLOW 20120523	SM 2510B	MT/8938		
60122217020	MW-1 DEEP 20120523	SM 2510B	MT/8938		
60122217021	MW-2 DEEP 20120524	SM 2510B	MT/8938		
60122217022	MW-3 DEEP 20120524	SM 2510B	MT/8938		
60122217023	MW-4 SHALLOW 20120523	SM 2510B	MT/8938		
60122217024	MW-4 DEEP 20120523	SM 2510B	MT/8938		
60122217025	MW-5 SHALLOW 20120524	SM 2510B	MT/8938		
60122217026	MW-5 DEEP 20120524	SM 2510B	MT/8938		
60122217027	MW-6 SHALLOW 20120523	SM 2510B	MT/8938		
60122217028	MW-6 DEEP 20120523	SM 2510B	MT/8938		
60122217001	DR-1 20120523	Calculated	MT/9003		
60122217002	DR-2 20120524	Calculated	MT/9003		
60122217003	DR-3 20120524	Calculated	MT/9003		
60122217004	DR-4 20120524	Calculated	MT/9003		
60122217005	DR-5 20120524	Calculated	MT/9003		
60122217006	DR-6 20120524	Calculated	MT/9003		
60122217007	DR-7 20120524	Calculated	MT/9003		
60122217008	DR-8 20120524	Calculated	MT/9003		
60122217009	DR-4 SW 20120524	Calculated	MT/9003		
60122217010	DR-G 20120524	Calculated	MT/9003		
60122217011	FB 20120524	Calculated	MT/9003		
60122217012	GW-1 20120523	Calculated	MT/9003		

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Project: MAY 2012 RICO WATER SAMPLING
Pace Project No.: 60122217

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60122217013	GW-3 20120523	Calculated	MT/9003		
60122217014	GW-4 20120524	Calculated	MT/9003		
60122217015	GW-5 20120524	Calculated	MT/9003		
60122217016	GW-7 20120523	Calculated	MT/9003		
60122217017	EB-1 20120523	Calculated	MT/9003		
60122217018	EB-2 20120523	Calculated	MT/9003		
60122217019	MW-1 SHALLOW 20120523	Calculated	MT/9003		
60122217020	MW-1 DEEP 20120523	Calculated	MT/9003		
60122217021	MW-2 DEEP 20120524	Calculated	MT/9004		
60122217022	MW-3 DEEP 20120524	Calculated	MT/9004		
60122217023	MW-4 SHALLOW 20120523	Calculated	MT/9004		
60122217024	MW-4 DEEP 20120523	Calculated	MT/9004		
60122217025	MW-5 SHALLOW 20120524	Calculated	MT/9004		
60122217026	MW-5 DEEP 20120524	Calculated	MT/9004		
60122217027	MW-6 SHALLOW 20120523	Calculated	MT/9004		
60122217028	MW-6 DEEP 20120523	Calculated	MT/9004		
60122217001	DR-1 20120523	SM 2320B	WET/35350		
60122217002	DR-2 20120524	SM 2320B	WET/35356		
60122217003	DR-3 20120524	SM 2320B	WET/35356		
60122217004	DR-4 20120524	SM 2320B	WET/35356		
60122217005	DR-5 20120524	SM 2320B	WET/35356		
60122217006	DR-6 20120524	SM 2320B	WET/35356		
60122217007	DR-7 20120524	SM 2320B	WET/35356		
60122217008	DR-8 20120524	SM 2320B	WET/35356		
60122217009	DR-4 SW 20120524	SM 2320B	WET/35376		
60122217010	DR-G 20120524	SM 2320B	WET/35376		
60122217011	FB 20120524	SM 2320B	WET/35376		
60122217012	GW-1 20120523	SM 2320B	WET/35350		
60122217013	GW-3 20120523	SM 2320B	WET/35350		
60122217014	GW-4 20120524	SM 2320B	WET/35376		
60122217015	GW-5 20120524	SM 2320B	WET/35376		
60122217016	GW-7 20120523	SM 2320B	WET/35350		
60122217017	EB-1 20120523	SM 2320B	WET/35350		
60122217018	EB-2 20120523	SM 2320B	WET/35350		
60122217019	MW-1 SHALLOW 20120523	SM 2320B	WET/35350		
60122217020	MW-1 DEEP 20120523	SM 2320B	WET/35350		
60122217021	MW-2 DEEP 20120524	SM 2320B	WET/35376		
60122217022	MW-3 DEEP 20120524	SM 2320B	WET/35376		
60122217023	MW-4 SHALLOW 20120523	SM 2320B	WET/35356		
60122217024	MW-4 DEEP 20120523	SM 2320B	WET/35376		
60122217025	MW-5 SHALLOW 20120524	SM 2320B	WET/35376		
60122217026	MW-5 DEEP 20120524	SM 2320B	WET/35376		
60122217027	MW-6 SHALLOW 20120523	SM 2320B	WET/35356		

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MAY 2012 RICO WATER SAMPLING

Pace Project No.: 60122217

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60122217028	MW-6 DEEP 20120523	SM 2320B	WET/35376		
60122217001	DR-1 20120523	SM 2540C	WET/35312		
60122217002	DR-2 20120524	SM 2540C	WET/35311		
60122217003	DR-3 20120524	SM 2540C	WET/35311		
60122217004	DR-4 20120524	SM 2540C	WET/35311		
60122217005	DR-5 20120524	SM 2540C	WET/35311		
60122217006	DR-6 20120524	SM 2540C	WET/35311		
60122217007	DR-7 20120524	SM 2540C	WET/35311		
60122217008	DR-8 20120524	SM 2540C	WET/35311		
60122217009	DR-4 SW 20120524	SM 2540C	WET/35311		
60122217010	DR-G 20120524	SM 2540C	WET/35311		
60122217011	FB 20120524	SM 2540C	WET/35311		
60122217012	GW-1 20120523	SM 2540C	WET/35312		
60122217013	GW-3 20120523	SM 2540C	WET/35312		
60122217014	GW-4 20120524	SM 2540C	WET/35311		
60122217015	GW-5 20120524	SM 2540C	WET/35311		
60122217016	GW-7 20120523	SM 2540C	WET/35312		
60122217017	EB-1 20120523	SM 2540C	WET/35312		
60122217018	EB-2 20120523	SM 2540C	WET/35312		
60122217019	MW-1 SHALLOW 20120523	SM 2540C	WET/35312		
60122217020	MW-1 DEEP 20120523	SM 2540C	WET/35312		
60122217021	MW-2 DEEP 20120524	SM 2540C	WET/35311		
60122217022	MW-3 DEEP 20120524	SM 2540C	WET/35311		
60122217023	MW-4 SHALLOW 20120523	SM 2540C	WET/35312		
60122217024	MW-4 DEEP 20120523	SM 2540C	WET/35311		
60122217025	MW-5 SHALLOW 20120524	SM 2540C	WET/35311		
60122217026	MW-5 DEEP 20120524	SM 2540C	WET/35311		
60122217027	MW-6 SHALLOW 20120523	SM 2540C	WET/35312		
60122217028	MW-6 DEEP 20120523	SM 2540C	WET/35311		
60122217001	DR-1 20120523	SM 2540D	WET/35299		
60122217002	DR-2 20120524	SM 2540D	WET/35306		
60122217003	DR-3 20120524	SM 2540D	WET/35306		
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60122217006	DR-6 20120524	SM 2540D	WET/35306		
60122217007	DR-7 20120524	SM 2540D	WET/35306		
60122217008	DR-8 20120524	SM 2540D	WET/35306		
60122217009	DR-4 SW 20120524	SM 2540D	WET/35306		
60122217010	DR-G 20120524	SM 2540D	WET/35306		
60122217011	FB 20120524	SM 2540D	WET/35306		
60122217012	GW-1 20120523	SM 2540D	WET/35299		
60122217013	GW-3 20120523	SM 2540D	WET/35299		

Date: 07/12/2012 02:58 PM

REPORT OF LABORATORY ANALYSIS

Page 150 of 153

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MAY 2012 RICO WATER SAMPLING
Pace Project No.: 60122217

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60122217014	GW-4 20120524	SM 2540D	WET/35306		
60122217015	GW-5 20120524	SM 2540D	WET/35306		
60122217016	GW-7 20120523	SM 2540D	WET/35299		
60122217017	EB-1 20120523	SM 2540D	WET/35299		
60122217018	EB-2 20120523	SM 2540D	WET/35299		
60122217019	MW-1 SHALLOW 20120523	SM 2540D	WET/35299		
60122217020	MW-1 DEEP 20120523	SM 2540D	WET/35299		
60122217021	MW-2 DEEP 20120524	SM 2540D	WET/35306		
60122217022	MW-3 DEEP 20120524	SM 2540D	WET/35306		
60122217023	MW-4 SHALLOW 20120523	SM 2540D	WET/35299		
60122217024	MW-4 DEEP 20120523	SM 2540D	WET/35306		
60122217025	MW-5 SHALLOW 20120524	SM 2540D	WET/35306		
60122217026	MW-5 DEEP 20120524	SM 2540D	WET/35306		
60122217027	MW-6 SHALLOW 20120523	SM 2540D	WET/35299		
60122217028	MW-6 DEEP 20120523	SM 2540D	WET/35306		
60122217001	DR-1 20120523	SM 4500-S-2 D	WET/35308		
60122217002	DR-2 20120524	SM 4500-S-2 D	WET/35309		
60122217003	DR-3 20120524	SM 4500-S-2 D	WET/35309		
60122217004	DR-4 20120524	SM 4500-S-2 D	WET/35309		
60122217005	DR-5 20120524	SM 4500-S-2 D	WET/35309		
60122217006	DR-6 20120524	SM 4500-S-2 D	WET/35309		
60122217007	DR-7 20120524	SM 4500-S-2 D	WET/35309		
60122217008	DR-8 20120524	SM 4500-S-2 D	WET/35309		
60122217009	DR-4 SW 20120524	SM 4500-S-2 D	WET/35309		
60122217010	DR-G 20120524	SM 4500-S-2 D	WET/35309		
60122217011	FB 20120524	SM 4500-S-2 D	WET/35309		
60122217012	GW-1 20120523	SM 4500-S-2 D	WET/35308		
60122217013	GW-3 20120523	SM 4500-S-2 D	WET/35308		
60122217014	GW-4 20120524	SM 4500-S-2 D	WET/35309		
60122217015	GW-5 20120524	SM 4500-S-2 D	WET/35309		
60122217016	GW-7 20120523	SM 4500-S-2 D	WET/35308		
60122217017	EB-1 20120523	SM 4500-S-2 D	WET/35308		
60122217018	EB-2 20120523	SM 4500-S-2 D	WET/35308		
60122217019	MW-1 SHALLOW 20120523	SM 4500-S-2 D	WET/35308		
60122217020	MW-1 DEEP 20120523	SM 4500-S-2 D	WET/35308		
60122217021	MW-2 DEEP 20120524	SM 4500-S-2 D	WET/35309		
60122217022	MW-3 DEEP 20120524	SM 4500-S-2 D	WET/35309		
60122217023	MW-4 SHALLOW 20120523	SM 4500-S-2 D	WET/35308		
60122217024	MW-4 DEEP 20120523	SM 4500-S-2 D	WET/35309		
60122217025	MW-5 SHALLOW 20120524	SM 4500-S-2 D	WET/35309		
60122217026	MW-5 DEEP 20120524	SM 4500-S-2 D	WET/35309		

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MAY 2012 RICO WATER SAMPLING
Pace Project No.: 60122217

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60122217027	MW-6 SHALLOW 20120523	SM 4500-S-2 D	WET/35308		
60122217028	MW-6 DEEP 20120523	SM 4500-S-2 D	WET/35309		
60122217001	DR-1 20120523	EPA 300.0	WETA/20420		
60122217002	DR-2 20120524	EPA 300.0	WETA/20420		
60122217003	DR-3 20120524	EPA 300.0	WETA/20420		
60122217004	DR-4 20120524	EPA 300.0	WETA/20420		
60122217005	DR-5 20120524	EPA 300.0	WETA/20420		
60122217006	DR-6 20120524	EPA 300.0	WETA/20420		
60122217007	DR-7 20120524	EPA 300.0	WETA/20420		
60122217008	DR-8 20120524	EPA 300.0	WETA/20420		
60122217009	DR-4 SW 20120524	EPA 300.0	WETA/20420		
60122217010	DR-G 20120524	EPA 300.0	WETA/20420		
60122217011	FB 20120524	EPA 300.0	WETA/20420		
60122217012	GW-1 20120523	EPA 300.0	WETA/20420		
60122217013	GW-3 20120523	EPA 300.0	WETA/20420		
60122217014	GW-4 20120524	EPA 300.0	WETA/20447		
60122217015	GW-5 20120524	EPA 300.0	WETA/20447		
60122217016	GW-7 20120523	EPA 300.0	WETA/20447		
60122217017	EB-1 20120523	EPA 300.0	WETA/20447		
60122217018	EB-2 20120523	EPA 300.0	WETA/20447		
60122217019	MW-1 SHALLOW 20120523	EPA 300.0	WETA/20447		
60122217020	MW-1 DEEP 20120523	EPA 300.0	WETA/20447		
60122217021	MW-2 DEEP 20120524	EPA 300.0	WETA/20447		
60122217022	MW-3 DEEP 20120524	EPA 300.0	WETA/20447		
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60122217024	MW-4 DEEP 20120523	EPA 300.0	WETA/20447		
60122217025	MW-5 SHALLOW 20120524	EPA 300.0	WETA/20447		
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60122217004	DR-4 20120524	SM 4500-CN-E	WETA/20392		
60122217005	DR-5 20120524	SM 4500-CN-E	WETA/20392		
60122217006	DR-6 20120524	SM 4500-CN-E	WETA/20392		
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60122217008	DR-8 20120524	SM 4500-CN-E	WETA/20392		
60122217009	DR-4 SW 20120524	SM 4500-CN-E	WETA/20392		
60122217010	DR-G 20120524	SM 4500-CN-E	WETA/20393		
60122217011	FB 20120524	SM 4500-CN-E	WETA/20393		
60122217012	GW-1 20120523	SM 4500-CN-E	WETA/20392		
60122217013	GW-3 20120523	SM 4500-CN-E	WETA/20392		
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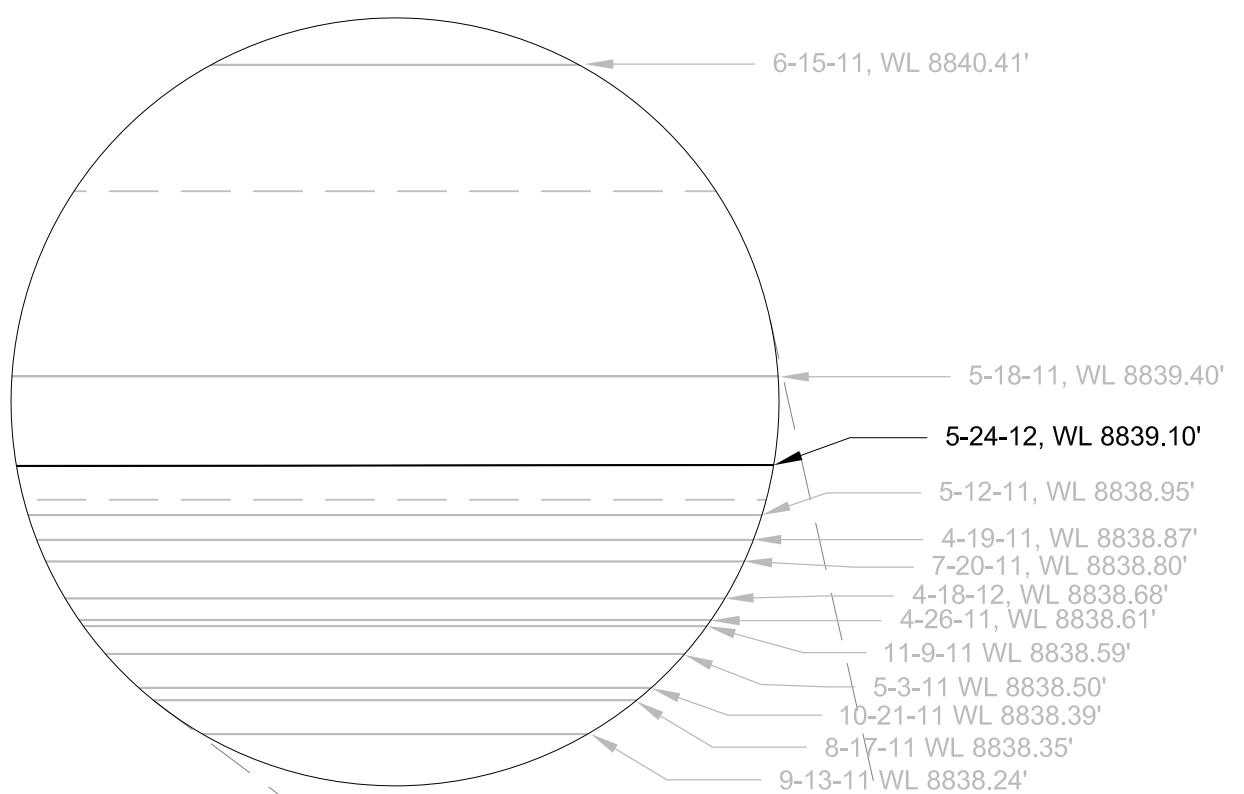
QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MAY 2012 RICO WATER SAMPLING
Pace Project No.: 60122217

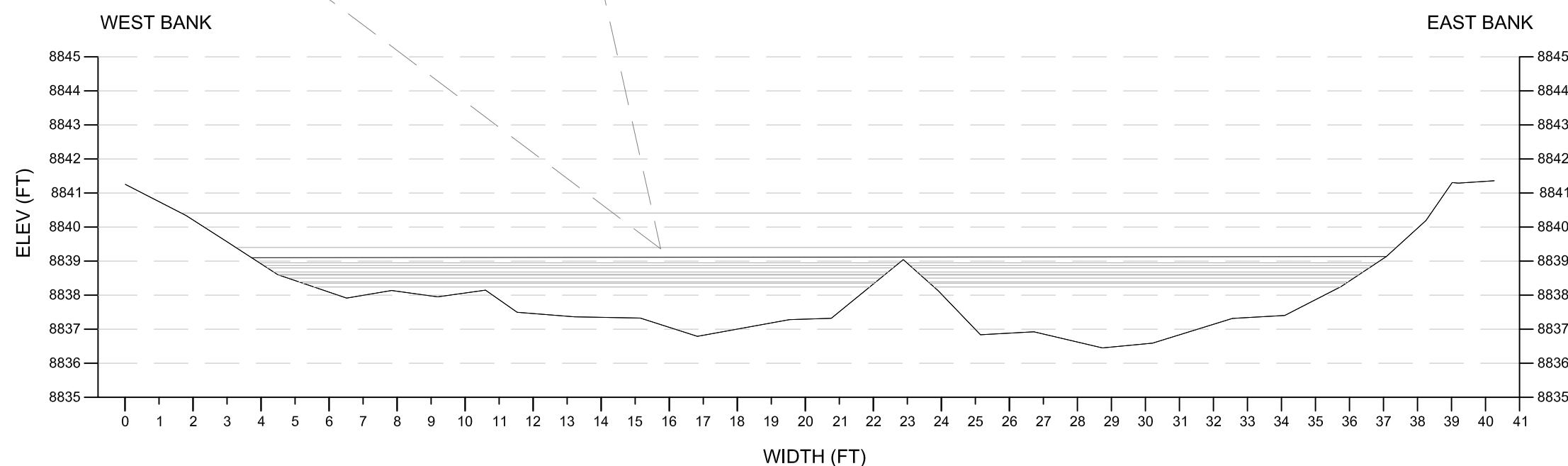
Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
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60122217018	EB-2 20120523	SM 4500-CN-E	WETA/20392		
60122217019	MW-1 SHALLOW 20120523	SM 4500-CN-E	WETA/20392		
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60122217021	MW-2 DEEP 20120524	SM 4500-CN-E	WETA/20393		
60122217022	MW-3 DEEP 20120524	SM 4500-CN-E	WETA/20393		
60122217023	MW-4 SHALLOW 20120523	SM 4500-CN-E	WETA/20392		
60122217024	MW-4 DEEP 20120523	SM 4500-CN-E	WETA/20393		
60122217025	MW-5 SHALLOW 20120524	SM 4500-CN-E	WETA/20393		
60122217026	MW-5 DEEP 20120524	SM 4500-CN-E	WETA/20393		
60122217027	MW-6 SHALLOW 20120523	SM 4500-CN-E	WETA/20392		
60122217028	MW-6 DEEP 20120523	SM 4500-CN-E	WETA/20393		
60122217001	DR-1 20120523	SM 5310C	WETA/20469		
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60122217003	DR-3 20120524	SM 5310C	WETA/20469		
60122217004	DR-4 20120524	SM 5310C	WETA/20469		
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60122217009	DR-4 SW 20120524	SM 5310C	WETA/20469		
60122217010	DR-G 20120524	SM 5310C	WETA/20469		
60122217011	FB 20120524	SM 5310C	WETA/20469		
60122217012	GW-1 20120523	SM 5310C	WETA/20469		
60122217013	GW-3 20120523	SM 5310C	WETA/20469		
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60122217026	MW-5 DEEP 20120524	SM 5310C	WETA/20497		
60122217027	MW-6 SHALLOW 20120523	SM 5310C	WETA/20497		
60122217028	MW-6 DEEP 20120523	SM 5310C	WETA/20497		

Appendix E

Flow Cross Sections



DR-1 CROSS SECTION



CROSS SECTION AT DR-1
SCALE - 1" = 4'

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SALT LAKE CITY, UTAH, 84119 AND SHALL NOT BE COPIED, REDUCED, OR REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

General Notes		
NOTE: DUE TO HIGH, FAST FLOW IN RIVER, FLOWRATE WAS ESTIMATED BY FLOTATION METHOD		
No.	Revision/Issue	Date

ATLANTIC RICHFIELD COMPANY



ANDERSON
ENGINEERING COMPANY, INC.

DRAWN BY: MAD
ENGINEER: CS, MAD
APPROVED:

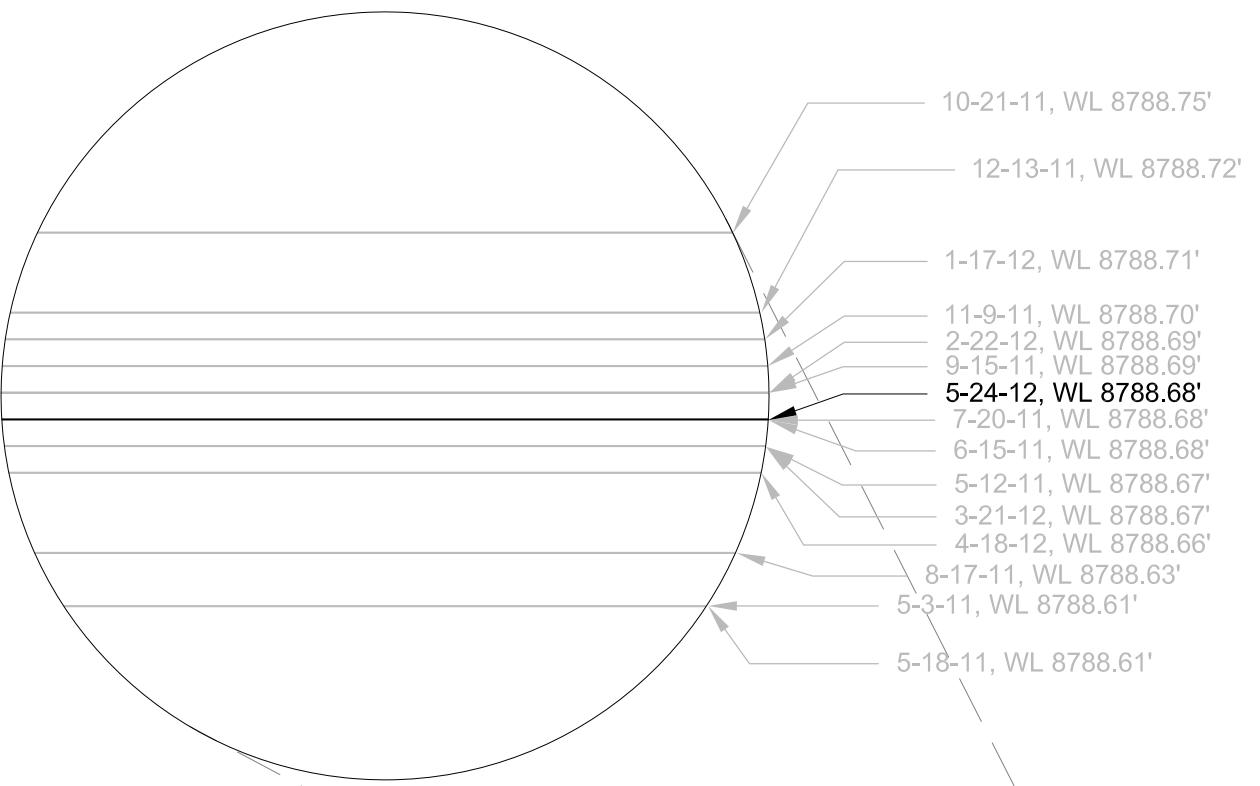
RICO SURFACE WATER SAMPLING

DOLORES RIVER CROSS SECTION AT SAMPLING STATION DR-1

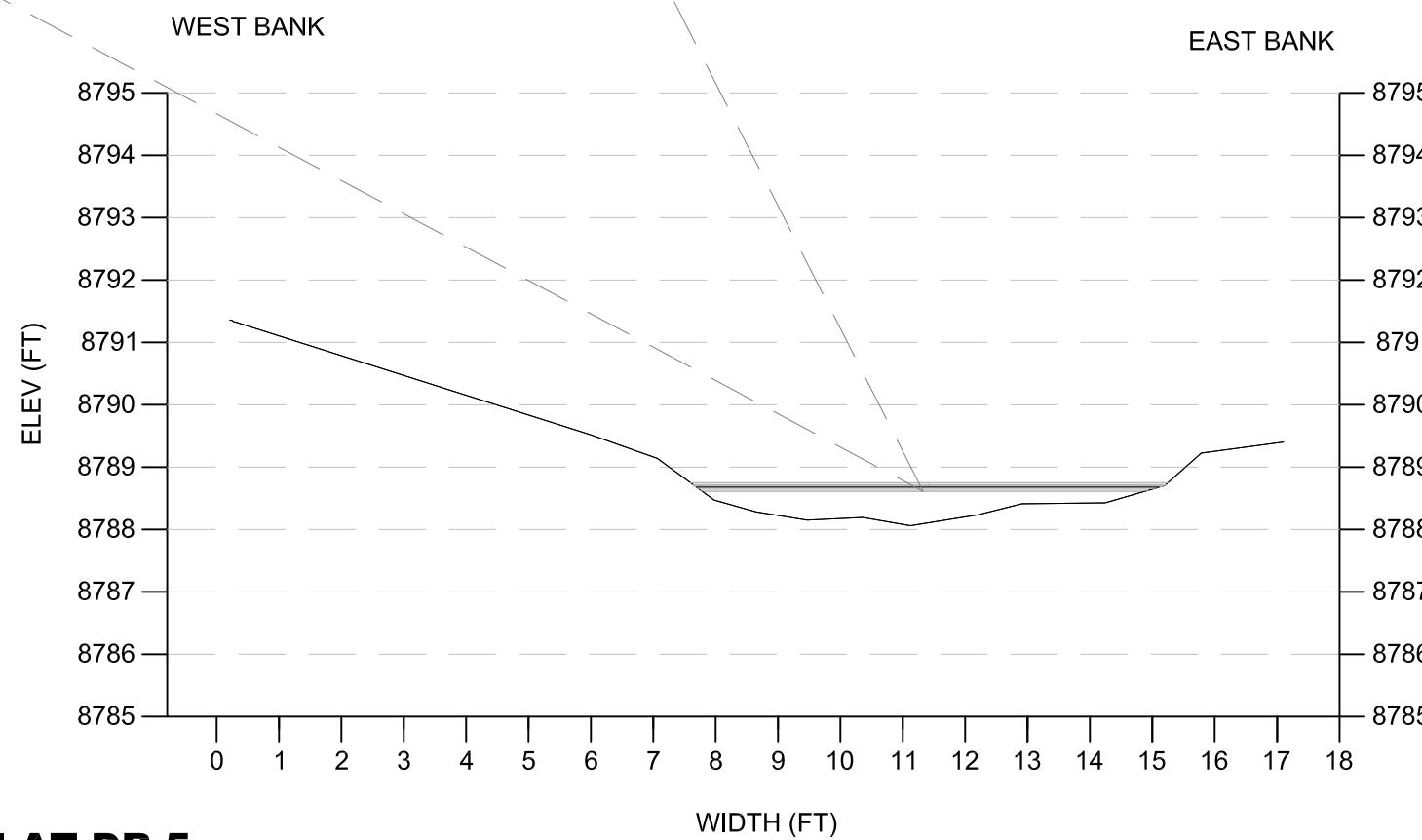
RICO, CO

Project	Figure
Date	24-MAY-2012
Scale	

3



DR-5 CROSS SECTION



4 **CROSS SECTION AT DR-5**
SCALE - 1" = 3'

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SALT LAKE CITY, UTAH, 84119 AND SHALL NOT BE COPIED, REDUCED, OR REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

General Notes		
Scale in Feet		
0	1.5	3
No.	Revision/Issue	Date

ATLANTIC RICHFIELD
COMPANY



ANDERSON
ENGINEERING COMPANY, INC.

DRAWN BY: MAD
ENGINEER: CS, MAD
APPROVED:

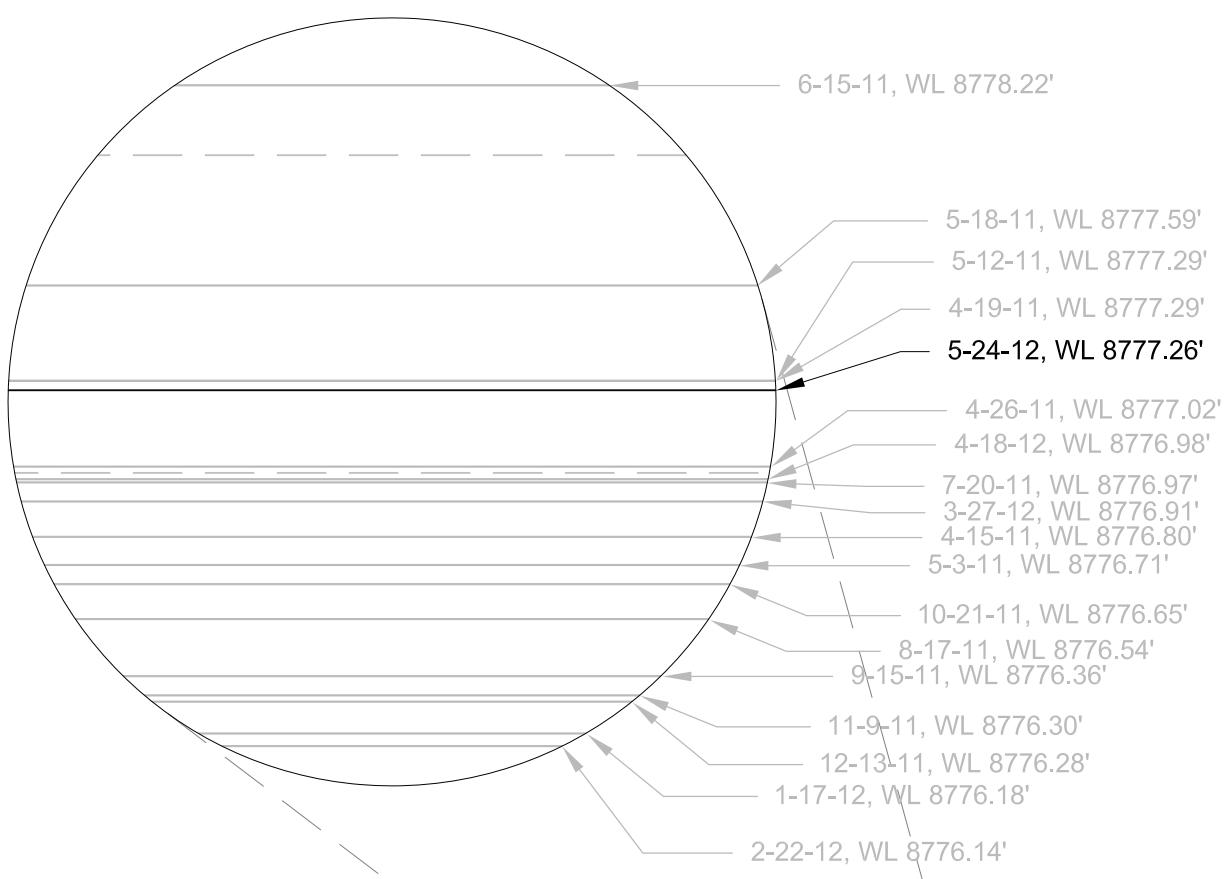
**RICO SURFACE
WATER SAMPLING**

**POND 8 EMBANKMENT
CROSS SECTION AT
SAMPLING STATION DR-5**

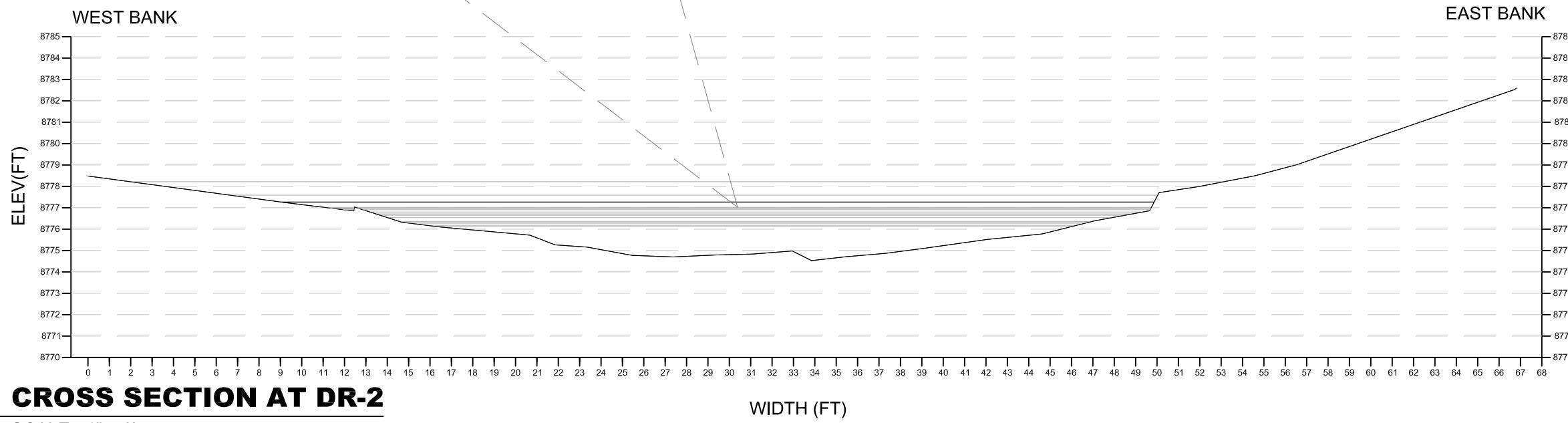
RICO, CO

Project	Figure
Date	24-MAY-2012
Scale	

4



DR-2 CROSS SECTION



CROSS SECTION AT DR-2

SCALE - 1" = 6'

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General Notes

NOTE: DUE TO HIGH, FAST
FLOW IN RIVER, FLOWRATE
WAS ESTIMATED BY
FLOTATION METHOD

Scale in Feet



No.	Revision/Issue	Date

**ATLANTIC RICHFIELD
COMPANY**



ANDERSON
ENGINEERING COMPANY, INC.

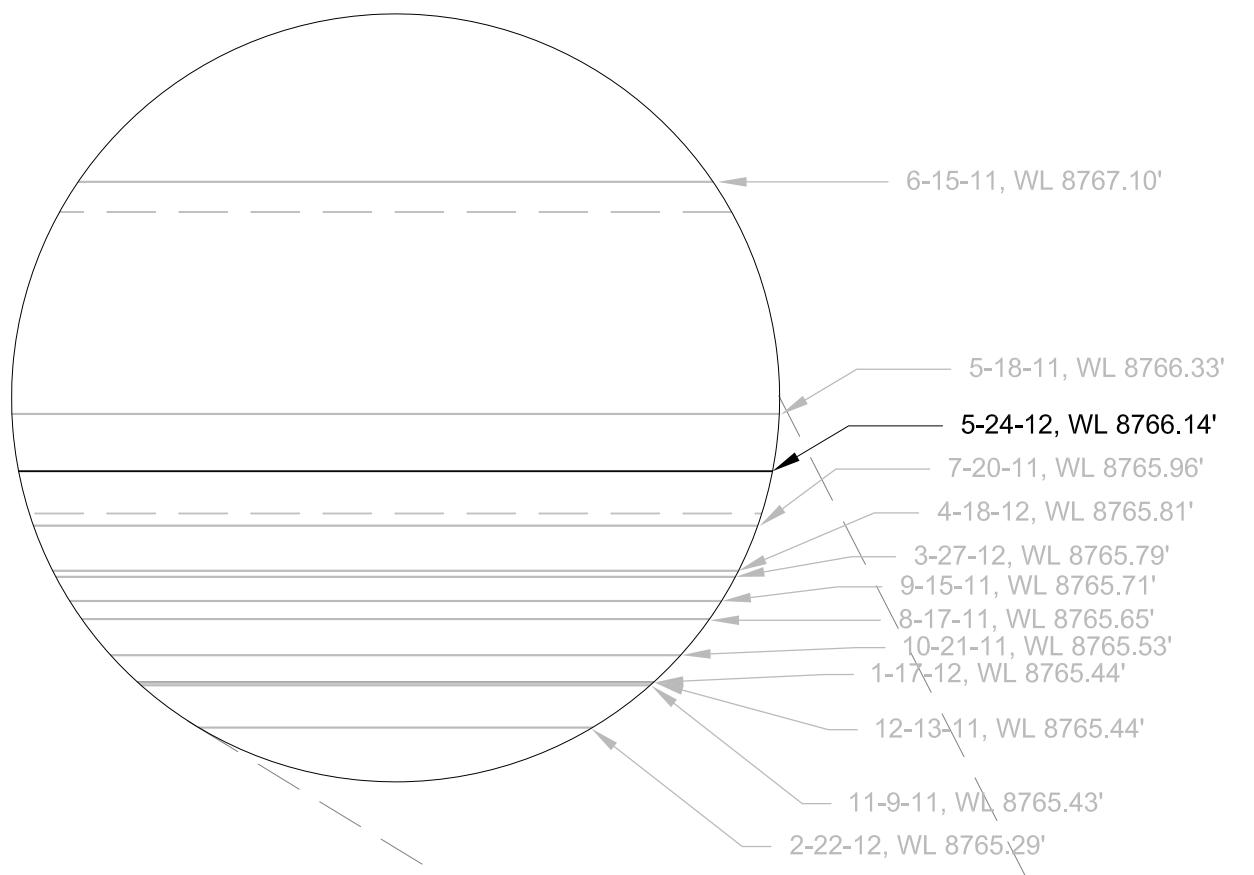
DRAWN BY: MAD
ENGINEER: CS, MAD
APPROVED:

RICO SURFACE WATER SAMPLING

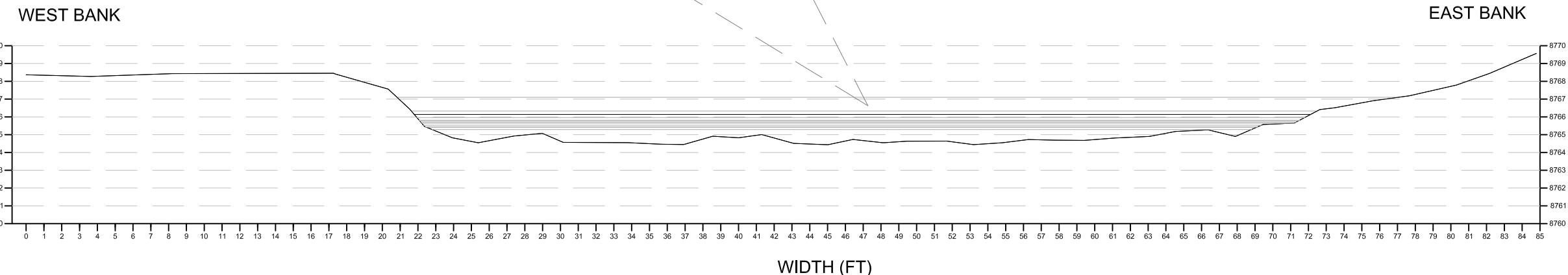
DOLORES RIVER CROSS SECTION AT SAMPLING STATION DR-2

RICO, CO

project	Figure
date	24-MAY-2012
code	5



DR-7 CROSS SECTION



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General Notes

Scale in Feet
0 3.5 7

No.	Revision/Issue	Date
-----	----------------	------

ATLANTIC RICHFIELD COMPANY



ANDERSON
ENGINEERING COMPANY, INC.

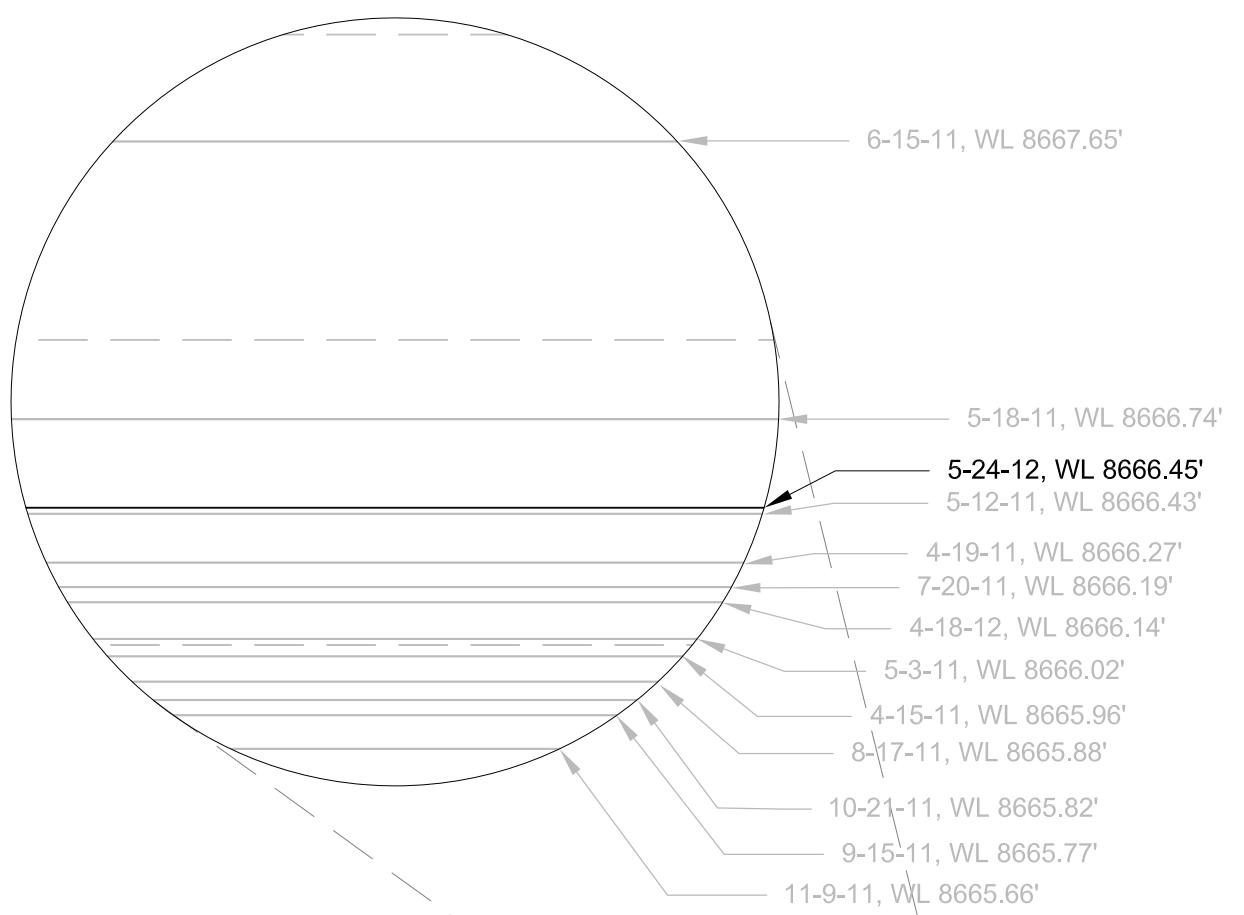
DRAWN BY: MAD
ENGINEER: CS, MAD
APPROVED:

RICO SURFACE
WATER SAMPLING

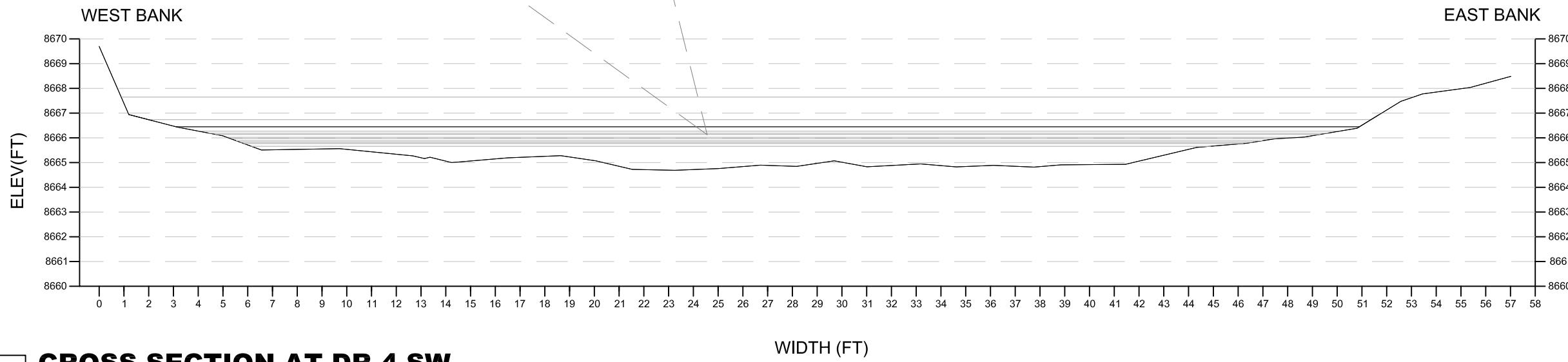
DOLORES RIVER CROSS
SECTION AT SAMPLING
STATION DR-7

RICO, CO

Project
Date
Scale
Figure
24-MAY-2012
6



DR-4-SW CROSS SECTION



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SALT LAKE CITY, UTAH, 84119 AND SHALL NOT BE COPIED, REDUCED, OR REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

General Notes		
NOTE: DUE TO HIGH, FAST FLOW IN RIVER, FLOWRATE WAS ESTIMATED BY FLOTATION METHOD		
Scale in Feet 0 2.5 5		
No.	Revision/Issue	Date

ATLANTIC RICHFIELD
COMPANY



ANDERSON
ENGINEERING COMPANY, INC.

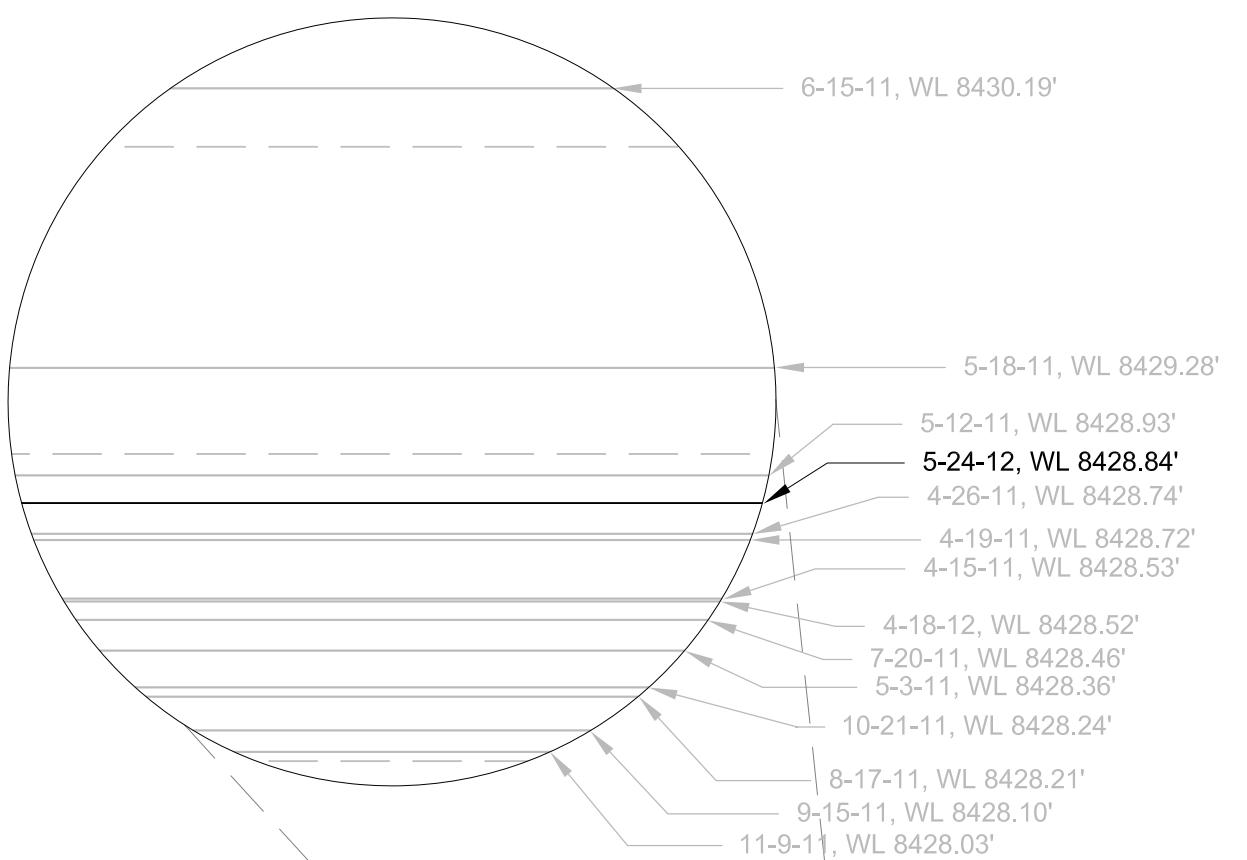
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ENGINEER: CS, MAD
APPROVED:

RICO SURFACE
WATER SAMPLING

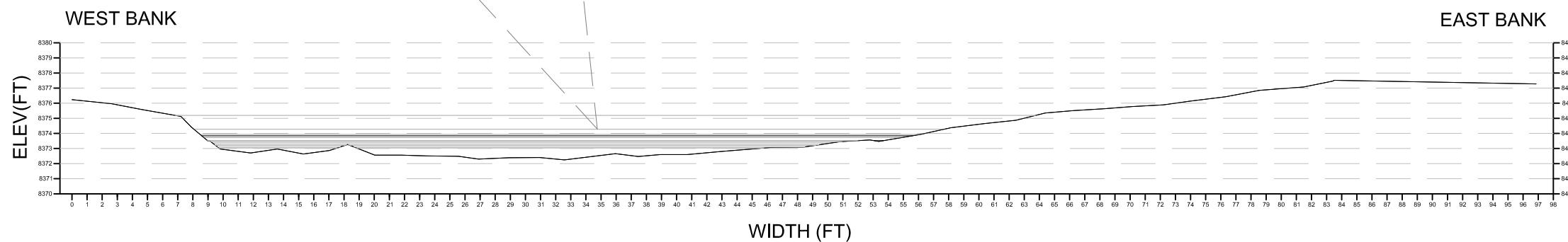
DOLORES RIVER CROSS
SECTION AT SAMPLING
STATION DR-4-SW

RICO, CO

Project	Figure
Date	24-MAY-2012
Scale	



DR-G CROSS SECTION



CROSS SECTION AT DR-G

General Notes		
NOTE: DUE TO HIGH, FAST FLOW IN RIVER, FLOWRATE WAS ESTIMATED BY FLOTATION METHOD		
		
No.	Revision/Issue	Date
ATLANTIC RICHFIELD COMPANY		



DRAWN BY: MAD
ENGINEER: CS, MAD
APPROVED:

RICO SURFACE WATER SAMPLING
DOLORES RIVER CROSS SECTION AT SAMPLING STATION DR-G
RICO, CO

Project: **DR-G**
Date: **24-MAY-2012**
Scale:

Appendix F
Chain of Custody Records



977 West 2100 South
Salt Lake City, UT 84119
(801) 972-6222
FAX (801) 972-6235

Project: May 2012 Rico Water Sampling

Contact: Mark DeFriez (801) 234-9583

CHAIN OF CUSTODY RECORD

COC#
Page 1 of 2

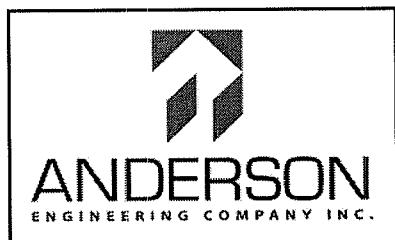
Matrix Codes			
(W) Water	(S) Soil	(L) Liquid	QC: (circle one)
I	II	III	IV

00122217

Field Location	Field Sample ID Number	Date	Time	Matrix	Analysis Requested								Comments	
					No. of Containers	Total Metals / Hardness	Potentially Dissolved Metal	Dissolved Metals	Alkalinity / TDS / TSS / Sulfate	Cyanide	Salinity	Silica	Total Organic Carbon	
DR-1	DR-1_20120523	5/23/2012		W	9	X X X X X X X X X X								1BP2u 1BP32 1BP32 1BP3F13 2BP3u 1A355 2BP3u W1
DR-2	DR-2_20120524	5/24/2012		W	9	X X X X X X X X X X								1BP3 u W2
DR-3	DR-3_20120524	5/24/2012		W	9	X X X X X X X X X X								2BP3u W3
DR-4	DR-4_20120524	5/24/2012		W	9	X X X X X X X X X X								ay
DR-5	DR-5_20120524	5/24/2012		W	9	X X X X X X X X X X								W5
DR-6	DR-6_20120524	5/24/2012		W	9	X X X X X X X X X X								W6
DR-7	DR-7_20120524	5/24/2012		W	9	X X X X X X X X X X								W7
DR-8	DR-8_20120524	5/24/2012		W	9	X X X X X X X X X X								W8
DR-4-SW	DR-4-SW_20120524	5/24/2012		W	9	X X X X X X X X X X								W9
DR-G	DR-G_20120524	5/24/2012		W	9	X X X X X X X X X X								W10
FB	FB_20120524	5/24/2012		W	9	X X X X X X X X X X								W11
GW-1	GW-1_20120523	5/23/2012		W	9	X X X X X X X X X X								W12
GW-3	GW-3_20120523	5/23/2012		W	9	X X X X X X X X X X								W13
GW-4	GW-4_20120524	5/24/2012		W	9	X X X X X X X X X X								W14
GW-5	GW-5_20120524	5/24/2012		W	9	X X X X X X X X X X								W15
GW-7	GW-7_20120523	5/23/2012		W	9	X X X X X X X X X X								W16
EB-1	EB-1_20120523	5/23/2012		W	9	X X X X X X X X X X								W17
EB-2	EB-2_20120523	5/23/2012		W	9	X X X X X X X X X X								W18
MW-1 SHALLOW	MW-1 SHALLOW_20120523	5/23/2012		W	9	X X X X X X X X X X								W19
MW-1 DEEP	MW-1 DEEP_20120523	5/23/2012		W	9	X X X X X X X X X X								W20

Relinquished By: signature	Date	Time	Received By: signature	Date	Time	Special Instructions
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Relinquished By: signature	Date	Time	Received By: signature	Date	Time	
Relinquished By: signature	Date	Time	Received By: signature	Date	Time	
Relinquished By: signature	Date	Time	Received By: signature	Date	Time	

Rev 1002
new sketch



977 West 2100 South
Salt Lake City, UT 84119
(801) 972-6222
FAX (801) 972-6235

Project: May 2012 Rico Water Sampling

Contact: Mark DeFriez (801) 234-9583

CHAIN OF CUSTODY RECORD

COC# _____
Page 2 of 2

QC: (circle one)			
I	II	III	IV

60122217

COMMENTS

Relinquished By: signature	Date	Time	Received By: signature	Date	Time	Special Instructions
Relinquished By: signature	Date	Time	Received By: signature	Date	Time	
Relinquished By: signature	Date	Time	Received By: signature	Date	Time	
Relinquished By: signature	Date	Time	Received By: signature	Date	Time	



Sample Condition Upon Receipt

Client Name: Anderson Engineering Project # 60122217

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____
 Tracking #: 800108374296 Pace Shipping Label Used? Yes No

Optional	
Proj. Due Date:	<u>6/8</u>
Proj. Name:	

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Other ZP1C

Thermometer Used: T-191 / T-194 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature: 4.1 / 4.5 / 2.7 / 33 / 5.1 / 46 / 48 Comments: Date and Initials of person examining contents: 7/23 - 26-12
 Temperature should be above freezing to 6°C

Chain of Custody present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	2. <i>NO Chain</i>
Chain of Custody relinquished:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	3. <i>missing one cooler (7955 452) 4217)</i>
Sampler name & signature on COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	4. <i>" PESCO Waters "</i>
Samples arrived within holding time:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace containers used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC: -Includes date/time/ID/analyses Matrix:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <i>WT</i>	13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water). Phenolics	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed _____ Lot # of added preservative _____
Trip Blank present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Pace Trip Blank lot # (if purchased):		
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: <i>NC</i>

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution:

*- do total, Diss & Pot Diss Hg per Method Defreqz.
 - Run TSS / TDS / Sulfide out of hold per M. Defreqz > steriliz*

Project Manager Review: MW FR A MW Date: 5/3/12

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)



Sample Condition Upon Receipt

Client Name: AndersonProject # 6/6/2017

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____
 Tracking #: 795545214217 Pace Shipping Label Used? Yes No

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Other _____

Thermometer Used: T-191 / T-194

Type of Ice: Wet Blue None

Samples on ice, cooling process has begun

Cooler Temperature: 16.9

Temperature should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: JM 5/6/12 955

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2. <i>temp > 6°C</i>
Chain of Custody relinquished:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3. <i>ice melted.</i>
Sampler name & signature on COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7. <i>MW-3 DEEP</i>
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8. <i>MW-4 SHALLOW</i>
Correct containers used: -Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9. <i>MW-4 DEEP</i>
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC: -Includes date/time/ID/analyses Matrix:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <i>No times.</i>
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water). Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when <u>JM</u> completed <u>5/6/12</u> Lot # of added preservative _____
Trip Blank present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Pace Trip Blank lot # (if purchased): <u>111</u>		
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: _____

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution:

- Run outside of temp spec per Mark Defnez - MW 5/29/12

Project Manager Review: _____

Date: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Appendix G

Field Photos

May 2012 Field Photos



Cross Section at Station DR-1



Cross Section at Station DR-5



Cross Section at Station DR-2



Cross Section at Station DR-7

May 2012 Field Photos



Cross Section at Station DR-4-SW



Cross Section at Station DR-G

Appendix H
Field Log Book Records

May 2012

Station	Collected	Depth
DR-1	5/23	
DR-2	5/24	
DR-3	5/23 -	
DR-4	5/24	
DR-5	5/24	
DR-6	5/24	
DR-7	5/24 - 3:23	-
DR-8	5/24	
DR-4-8W	5/24	
DR-G	5/24	
FB	5/24	
GW-D	NA	10.38'
GW-1	5/23	0.43'
GW-3	5/23	13.68'
GW-4	5/24	10.04'
GW-5	5/24	20.67'
GW-6	NA	CNO
GW-7	5/23	19.50'
EB-1	5/23	21.11'
EB-2	5/23	15.97'

pH	T (°C)	EC (µS)	D _O (ppm)	ORP (mV)
6.24	9.21	86	4.87	-35.2
6.60	5.77	107	6.47	17.9
6.86	19.11	1332	3.07	-34.4
7.33	18.71	1349	4.45	-4.9
8.51	12.73	1378	5.12	35.2
6.59	12.53	1451	5.24	-29.9
6.44	10.34	165	6.08	-4.7
6.80	19.11	1332	3.07	-34.4
7.08	10.37	122	5.98	9.5
7.01	11.03	127	6.19	-31.7
6.84	19.09	0	3.64	-74.2
NA	13.02	CNO		
6.48	10.16	266	1.99	-34.2
6.32	12.88	768	1.84	-71.8
6.57	12.24	963	0.00	-90.0
6.61	12.76	2429	0.57	-101.9
NA	CNO			
6.11	14.08	1221	0.59	-80.5
6.50	15.73	2144	0.49	-107.5
6.61	13.85	3905	0.00	-81.4

Station	Collected	Depth	pH	T (°C)	EC (μS)	D _O (ppm)	ORP (mv)
MW-1 S	5/23	6.15'	6.57	13.88	1293	1.66	-47.6
MW-1 D	5/23	8.45'	6.47	13.61	1211	1.47	-48.0
MW-2 S	NA	DRY			Well was Dry		
MW-2 D	5/24	9.76'	6.40	12.67	1283	1.25	-35.6
MW-3 S	NA	DRY			Well was Dry		
MW-3 D	5/24	9.77'	6.89	13.52	1189	0.75	-78.9
MW-4 S	5/23	16.41'	6.08	15.27	1240	1.39	-55.2
MW-4 D	5/23	16.37'	6.06	14.43	1395	1.41	-43.6
MW-5 S	5/24	15.36'	4.91	15.09	2680	0.17	69.5
MW-5 D	5/24	16.54'	6.98	13.52	2367	0.24	-118.2
MW-6 S	5/23	22.35'	6.80	16.08	1564	0.39	-92.8
MW-6 D	5/23	22.37'	6.62	14.65	1449	1.24	-78.8

5/24/12

DR 1

BM 5 96

WL 8 22

V 1.87 1.77 1.94 (sec)

DR 1-A

BM 6 76

WL 8 52

V 1.72 1.98 2.30

DR 2

BM 4 90

WL 10 23

V 2.68 2.77 2.10

DR 5

BM 5 76

WL 8 44

V

DR 7

BM 7 48

WL 10 91

5/24/12

DR -7

Velocities: 1.1 1.7 2.6 2.5

2.0 1.1 2.7 2.8 2.3

4.0 2.9 4.9 4.5 4.3

4.1 4.1 2.9 2.9 3.9

3.4 4.3 2.6 4.0 3.4

5.2 2.9 3.4 2.2 3.0

1.9 2.9 2.4 2.8 3.0

3.4 0.7 0.6 0.8 0.9

DR 2A

BM 4 35

WL 9.60

Velocities: 2.0 4.3 3.8 2.3

3.5 3.0 3.4 3.1 1.7

3.4 2.2 2.6 2.1 0.8

1.8 3.4 2.3 1.9 3.0

2.1 2.4 3.4 2.4 3.5

1.9 3.4 2.7 3.8 3.5

3.9 4.9 3.7 2.8 3.2

3.2 2.8 2.3 1.5 2.8

2.1 1.0 1.3

5/24/12

DR - 3A

BM $4\frac{28}{5}$

WL $8\frac{56}{5}$

V $2\frac{32}{5}$ Z $2\frac{21}{5}$ Z $2\frac{30}{5}$

DR - 45W

BM $5\frac{42}{5}$

WL $7\frac{46}{5}$

V $2\frac{14}{5}$ Z $2\frac{20}{5}$ Z $2\frac{24}{5}$

DR G

BM $5\frac{13}{5}$

WL $8\frac{57}{5}$

V 2.00 Z $1\frac{77}{5}$ Z $1\frac{94}{5}$

DR-4

Upper pipe: D: 0.2'
V: 7.2 f/s

lower pipe D: 0.17'
V: 2.8 f/s



Appendix I

North Flume OTT PLS Data with Flowrates

OTT PLS Data at North Flume, May 2012

Date, Time	Depth Reading	(ft)	Flowrate (cfs)	Flowrate (gpm)
5/1/2012 0:00		0.59	1.38	620.4
5/1/2012 1:00		0.59	1.38	620.4
5/1/2012 2:00		0.59	1.38	620.4
5/1/2012 3:00		0.59	1.38	620.4
5/1/2012 4:00		0.59	1.38	620.4
5/1/2012 5:00		0.59	1.38	620.4
5/1/2012 6:00		0.59	1.38	620.4
5/1/2012 7:00		0.59	1.38	620.4
5/1/2012 8:00		0.59	1.38	620.4
5/1/2012 9:00		0.59	1.38	620.4
5/1/2012 10:00		0.59	1.38	620.4
5/1/2012 11:00		0.59	1.38	620.4
5/1/2012 12:00		0.59	1.38	620.4
5/1/2012 13:00		0.59	1.38	620.4
5/1/2012 14:00		0.59	1.38	620.4
5/1/2012 15:00		0.59	1.38	620.4
5/1/2012 16:00		0.59	1.38	620.4
5/1/2012 17:00		0.59	1.38	620.4
5/1/2012 18:00		0.59	1.38	620.4
5/1/2012 19:00		0.59	1.38	620.4
5/1/2012 20:00		0.59	1.38	620.4
5/1/2012 21:00		0.59	1.38	620.4
5/1/2012 22:00		0.59	1.38	620.4
5/1/2012 23:00		0.59	1.38	620.4
5/2/2012 0:00		0.59	1.38	620.4
5/2/2012 1:00		0.59	1.38	620.4
5/2/2012 2:00		0.59	1.38	620.4
5/2/2012 3:00		0.59	1.38	620.4
5/2/2012 4:00		0.59	1.38	620.4
5/2/2012 5:00		0.59	1.38	620.4
5/2/2012 6:00		0.59	1.38	620.4
5/2/2012 7:00		0.59	1.38	620.4
5/2/2012 8:00		0.59	1.38	620.4
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5/2/2012 18:00	0.59	1.38	620.4
5/2/2012 19:00	0.59	1.38	620.4
5/2/2012 20:00	0.59	1.38	620.4
5/2/2012 21:00	0.59	1.38	620.4
5/2/2012 22:00	0.59	1.38	620.4
5/2/2012 23:00	0.59	1.38	620.4
5/3/2012 0:00	0.59	1.38	620.4
5/3/2012 1:00	0.59	1.38	620.4
5/3/2012 2:00	0.59	1.38	620.4
5/3/2012 3:00	0.59	1.38	620.4
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5/23/2012 8:00	0.59	1.38	620.4
5/23/2012 9:00	0.59	1.38	620.4
5/23/2012 10:00	0.59	1.38	620.4
5/23/2012 11:00	0.6	1.42	636.4
5/23/2012 12:00	0.59	1.38	620.4
5/23/2012 13:00	0.59	1.38	620.4
5/23/2012 14:00	0.59	1.38	620.4
5/23/2012 15:00	0.59	1.38	620.4
5/23/2012 16:00	0.59	1.38	620.4
5/23/2012 17:00	0.59	1.38	620.4
5/23/2012 18:00	0.59	1.38	620.4
5/23/2012 19:00	0.59	1.38	620.4
5/23/2012 20:00	0.59	1.38	620.4
5/23/2012 21:00	0.59	1.38	620.4
5/23/2012 22:00	0.59	1.38	620.4
5/23/2012 23:00	0.59	1.38	620.4
5/24/2012 0:00	0.59	1.38	620.4
5/24/2012 1:00	0.59	1.38	620.4
5/24/2012 2:00	0.59	1.38	620.4
5/24/2012 3:00	0.59	1.38	620.4
5/24/2012 4:00	0.59	1.38	620.4
5/24/2012 5:00	0.59	1.38	620.4
5/24/2012 6:00	0.59	1.38	620.4
5/24/2012 7:00	0.59	1.38	620.4

5/24/2012 8:00	0.59	1.38	620.4
5/24/2012 9:00	0.59	1.38	620.4
5/24/2012 10:00	0.59	1.38	620.4
5/24/2012 11:00	0.59	1.38	620.4
5/24/2012 12:00	0.59	1.38	620.4
5/24/2012 13:00	0.59	1.38	620.4
5/24/2012 14:00	0.59	1.38	620.4
5/24/2012 15:00	0.59	1.38	620.4
5/24/2012 16:00	0.59	1.38	620.4
5/24/2012 17:00	0.59	1.38	620.4
5/24/2012 18:00	0.59	1.38	620.4
5/24/2012 19:00	0.59	1.38	620.4
5/24/2012 20:00	0.59	1.38	620.4
5/24/2012 21:00	0.59	1.38	620.4
5/24/2012 22:00	0.59	1.38	620.4
5/24/2012 23:00	0.59	1.38	620.4
5/25/2012 0:00	0.59	1.38	620.4
5/25/2012 1:00	0.59	1.38	620.4
5/25/2012 2:00	0.59	1.38	620.4
5/25/2012 3:00	0.59	1.38	620.4
5/25/2012 4:00	0.59	1.38	620.4
5/25/2012 5:00	0.59	1.38	620.4
5/25/2012 6:00	0.59	1.38	620.4
5/25/2012 7:00	0.59	1.38	620.4
5/25/2012 8:00	0.59	1.38	620.4
5/25/2012 9:00	0.59	1.38	620.4
5/25/2012 10:00	0.59	1.38	620.4
5/25/2012 11:00	0.59	1.38	620.4
5/25/2012 12:00	0.59	1.38	620.4
5/25/2012 13:00	0.59	1.38	620.4
5/25/2012 14:00	0.59	1.38	620.4
5/25/2012 15:00	0.59	1.38	620.4
5/25/2012 16:00	0.59	1.38	620.4
5/25/2012 17:00	0.59	1.38	620.4
5/25/2012 18:00	0.59	1.38	620.4
5/25/2012 19:00	0.59	1.38	620.4
5/25/2012 20:00	0.59	1.38	620.4
5/25/2012 21:00	0.59	1.38	620.4
5/25/2012 22:00	0.59	1.38	620.4
5/25/2012 23:00	0.59	1.38	620.4
5/26/2012 0:00	0.59	1.38	620.4
5/26/2012 1:00	0.59	1.38	620.4
5/26/2012 2:00	0.59	1.38	620.4
5/26/2012 3:00	0.59	1.38	620.4
5/26/2012 4:00	0.59	1.38	620.4
5/26/2012 5:00	0.59	1.38	620.4
5/26/2012 6:00	0.59	1.38	620.4

5/26/2012 7:00	0.59	1.38	620.4
5/26/2012 8:00	0.59	1.38	620.4
5/26/2012 9:00	0.59	1.38	620.4
5/26/2012 10:00	0.59	1.38	620.4
5/26/2012 11:00	0.59	1.38	620.4
5/26/2012 12:00	0.59	1.38	620.4
5/26/2012 13:00	0.59	1.38	620.4
5/26/2012 14:00	0.59	1.38	620.4
5/26/2012 15:00	0.59	1.38	620.4
5/26/2012 16:00	0.59	1.38	620.4
5/26/2012 17:00	0.59	1.38	620.4
5/26/2012 18:00	0.59	1.38	620.4
5/26/2012 19:00	0.59	1.38	620.4
5/26/2012 20:00	0.59	1.38	620.4
5/26/2012 21:00	0.59	1.38	620.4
5/26/2012 22:00	0.59	1.38	620.4
5/26/2012 23:00	0.59	1.38	620.4
5/27/2012 0:00	0.59	1.38	620.4
5/27/2012 1:00	0.59	1.38	620.4
5/27/2012 2:00	0.59	1.38	620.4
5/27/2012 3:00	0.59	1.38	620.4
5/27/2012 4:00	0.59	1.38	620.4
5/27/2012 5:00	0.59	1.38	620.4
5/27/2012 6:00	0.59	1.38	620.4
5/27/2012 7:00	0.59	1.38	620.4
5/27/2012 8:00	0.59	1.38	620.4
5/27/2012 9:00	0.59	1.38	620.4
5/27/2012 10:00	0.59	1.38	620.4
5/27/2012 11:00	0.59	1.38	620.4
5/27/2012 12:00	0.59	1.38	620.4
5/27/2012 13:00	0.59	1.38	620.4
5/27/2012 14:00	0.59	1.38	620.4
5/27/2012 15:00	0.59	1.38	620.4
5/27/2012 16:00	0.59	1.38	620.4
5/27/2012 17:00	0.59	1.38	620.4
5/27/2012 18:00	0.59	1.38	620.4
5/27/2012 19:00	0.59	1.38	620.4
5/27/2012 20:00	0.59	1.38	620.4
5/27/2012 21:00	0.59	1.38	620.4
5/27/2012 22:00	0.59	1.38	620.4
5/27/2012 23:00	0.59	1.38	620.4
5/28/2012 0:00	0.59	1.38	620.4
5/28/2012 1:00	0.59	1.38	620.4
5/28/2012 2:00	0.59	1.38	620.4
5/28/2012 3:00	0.59	1.38	620.4
5/28/2012 4:00	0.59	1.38	620.4
5/28/2012 5:00	0.59	1.38	620.4

5/28/2012 6:00	0.59	1.38	620.4
5/28/2012 7:00	0.59	1.38	620.4
5/28/2012 8:00	0.59	1.38	620.4
5/28/2012 9:00	0.59	1.38	620.4
5/28/2012 10:00	0.59	1.38	620.4
5/28/2012 11:00	0.59	1.38	620.4
5/28/2012 12:00	0.59	1.38	620.4
5/28/2012 13:00	0.59	1.38	620.4
5/28/2012 14:00	0.59	1.38	620.4
5/28/2012 15:00	0.59	1.38	620.4
5/28/2012 16:00	0.59	1.38	620.4
5/28/2012 17:00	0.59	1.38	620.4
5/28/2012 18:00	0.59	1.38	620.4
5/28/2012 19:00	0.59	1.38	620.4
5/28/2012 20:00	0.59	1.38	620.4
5/28/2012 21:00	0.59	1.38	620.4
5/28/2012 22:00	0.59	1.38	620.4
5/28/2012 23:00	0.59	1.38	620.4
5/29/2012 0:00	0.59	1.38	620.4
5/29/2012 1:00	0.59	1.38	620.4
5/29/2012 2:00	0.59	1.38	620.4
5/29/2012 3:00	0.59	1.38	620.4
5/29/2012 4:00	0.59	1.38	620.4
5/29/2012 5:00	0.59	1.38	620.4
5/29/2012 6:00	0.59	1.38	620.4
5/29/2012 7:00	0.59	1.38	620.4
5/29/2012 8:00	0.59	1.38	620.4
5/29/2012 9:00	0.59	1.38	620.4
5/29/2012 10:00	0.59	1.38	620.4
5/29/2012 11:00	0.59	1.38	620.4
5/29/2012 12:00	0.59	1.38	620.4
5/29/2012 13:00	0.59	1.38	620.4
5/29/2012 14:00	0.59	1.38	620.4
5/29/2012 15:00	0.59	1.38	620.4
5/29/2012 16:00	0.59	1.38	620.4
5/29/2012 17:00	0.59	1.38	620.4
5/29/2012 18:00	0.59	1.38	620.4
5/29/2012 19:00	0.59	1.38	620.4
5/29/2012 20:00	0.59	1.38	620.4
5/29/2012 21:00	0.59	1.38	620.4
5/29/2012 22:00	0.59	1.38	620.4
5/29/2012 23:00	0.59	1.38	620.4
5/30/2012 0:00	0.59	1.38	620.4
5/30/2012 1:00	0.59	1.38	620.4
5/30/2012 2:00	0.59	1.38	620.4
5/30/2012 3:00	0.59	1.38	620.4
5/30/2012 4:00	0.59	1.38	620.4

5/30/2012 5:00	0.59	1.38	620.4
5/30/2012 6:00	0.59	1.38	620.4
5/30/2012 7:00	0.59	1.38	620.4
5/30/2012 8:00	0.59	1.38	620.4
5/30/2012 9:00	0.59	1.38	620.4
5/30/2012 10:00	0.59	1.38	620.4
5/30/2012 11:00	0.59	1.38	620.4
5/30/2012 12:00	0.59	1.38	620.4
5/30/2012 13:00	0.59	1.38	620.4
5/30/2012 14:00	0.59	1.38	620.4
5/30/2012 15:00	0.59	1.38	620.4
5/30/2012 16:00	0.59	1.38	620.4
5/30/2012 17:00	0.59	1.38	620.4
5/30/2012 18:00	0.59	1.38	620.4
5/30/2012 19:00	0.59	1.38	620.4
5/30/2012 20:00	0.59	1.38	620.4
5/30/2012 21:00	0.59	1.38	620.4
5/30/2012 22:00	0.59	1.38	620.4
5/30/2012 23:00	0.59	1.38	620.4
5/31/2012 0:00	0.59	1.38	620.4
5/31/2012 1:00	0.59	1.38	620.4
5/31/2012 2:00	0.59	1.38	620.4
5/31/2012 3:00	0.59	1.38	620.4
5/31/2012 4:00	0.59	1.38	620.4
5/31/2012 5:00	0.59	1.38	620.4
5/31/2012 6:00	0.59	1.38	620.4
5/31/2012 7:00	0.59	1.38	620.4
5/31/2012 8:00	0.59	1.38	620.4
5/31/2012 9:00	0.59	1.38	620.4
5/31/2012 10:00	0.59	1.38	620.4
5/31/2012 11:00	0.59	1.38	620.4
5/31/2012 12:00	0.59	1.38	620.4
5/31/2012 13:00	0.59	1.38	620.4
5/31/2012 14:00	0.59	1.38	620.4
5/31/2012 15:00	0.59	1.38	620.4
5/31/2012 16:00	0.59	1.38	620.4
5/31/2012 17:00	0.59	1.38	620.4
5/31/2012 18:00	0.59	1.38	620.4
5/31/2012 19:00	0.59	1.38	620.4
5/31/2012 20:00	0.59	1.38	620.4
5/31/2012 21:00	0.59	1.38	620.4
5/31/2012 22:00	0.59	1.38	620.4
5/31/2012 23:00	0.59	1.38	620.4

Appendix J

South Flume Orpheus Mini Data with Flowrates

OTT Opheus Mini Data at South Flume, May 2012

Date	Time	Depth from top of flume to water (ft)	Depth of Flume Total (ft)	Depth of Flow (ft)	Flowrate (cfs)	Flowrate (gpm)
5/1/2012	12:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/1/2012	1:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/1/2012	2:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/1/2012	3:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/1/2012	4:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/1/2012	5:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/1/2012	6:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/1/2012	7:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/1/2012	8:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/1/2012	9:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/1/2012	10:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/1/2012	11:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/1/2012	12:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/1/2012	1:00:00 PM	1.98	2.5	0.52	1.14	512.6
5/1/2012	2:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/1/2012	3:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/1/2012	4:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/1/2012	5:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/1/2012	6:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/1/2012	7:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/1/2012	8:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/1/2012	9:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/1/2012	10:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/1/2012	11:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/2/2012	12:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/2/2012	1:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/2/2012	2:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/2/2012	3:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/2/2012	4:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/2/2012	5:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/2/2012	6:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/2/2012	7:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/2/2012	8:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/2/2012	9:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/2/2012	10:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/2/2012	11:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/2/2012	12:00:00 PM	1.98	2.5	0.52	1.14	512.6
5/2/2012	1:00:00 PM	1.98	2.5	0.52	1.14	512.6
5/2/2012	2:00:00 PM	1.98	2.5	0.52	1.14	512.6
5/2/2012	3:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/2/2012	4:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/2/2012	5:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/2/2012	6:00:00 PM	1.99	2.5	0.51	1.11	497.8

5/2/2012	7:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/2/2012	8:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/2/2012	9:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/2/2012	10:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/2/2012	11:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/3/2012	12:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/3/2012	1:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/3/2012	2:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/3/2012	3:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/3/2012	4:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/3/2012	5:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/3/2012	6:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/3/2012	7:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/3/2012	8:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/3/2012	9:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/3/2012	10:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/3/2012	11:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/3/2012	12:00:00 PM	1.98	2.5	0.52	1.14	512.6
5/3/2012	1:00:00 PM	1.98	2.5	0.52	1.14	512.6
5/3/2012	2:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/3/2012	3:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/3/2012	4:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/3/2012	5:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/3/2012	6:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/3/2012	7:00:00 PM	2.00	2.5	0.50	1.08	483.2
5/3/2012	8:00:00 PM	2.00	2.5	0.50	1.08	483.2
5/3/2012	9:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/3/2012	10:00:00 PM	2.00	2.5	0.50	1.08	483.2
5/3/2012	11:00:00 PM	2.00	2.5	0.50	1.08	483.2
5/4/2012	12:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/4/2012	1:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/4/2012	2:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/4/2012	3:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/4/2012	4:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/4/2012	5:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/4/2012	6:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/4/2012	7:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/4/2012	8:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/4/2012	9:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/4/2012	10:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/4/2012	11:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/4/2012	12:00:00 PM	1.98	2.5	0.52	1.14	512.6
5/4/2012	1:00:00 PM	1.98	2.5	0.52	1.14	512.6
5/4/2012	2:00:00 PM	1.98	2.5	0.52	1.14	512.6
5/4/2012	3:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/4/2012	4:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/4/2012	5:00:00 PM	2.00	2.5	0.50	1.08	483.2

5/4/2012	6:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/4/2012	7:00:00 PM	2.00	2.5	0.50	1.08	483.2
5/4/2012	8:00:00 PM	2.00	2.5	0.50	1.08	483.2
5/4/2012	9:00:00 PM	2.00	2.5	0.50	1.08	483.2
5/4/2012	10:00:00 PM	2.00	2.5	0.50	1.08	483.2
5/4/2012	11:00:00 PM	2.00	2.5	0.50	1.08	483.2
5/5/2012	12:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/5/2012	1:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/5/2012	2:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/5/2012	3:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/5/2012	4:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/5/2012	5:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/5/2012	6:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/5/2012	7:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/5/2012	8:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/5/2012	9:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/5/2012	10:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/5/2012	11:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/5/2012	12:00:00 PM	1.98	2.5	0.52	1.14	512.6
5/5/2012	1:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/5/2012	2:00:00 PM	1.98	2.5	0.52	1.14	512.6
5/5/2012	3:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/5/2012	4:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/5/2012	5:00:00 PM	2.00	2.5	0.50	1.08	483.2
5/5/2012	6:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/5/2012	7:00:00 PM	2.00	2.5	0.50	1.08	483.2
5/5/2012	8:00:00 PM	2.00	2.5	0.50	1.08	483.2
5/5/2012	9:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/5/2012	10:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/5/2012	11:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/6/2012	12:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/6/2012	1:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/6/2012	2:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/6/2012	3:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/6/2012	4:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/6/2012	5:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/6/2012	6:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/6/2012	7:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/6/2012	8:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/6/2012	9:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/6/2012	10:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/6/2012	11:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/6/2012	12:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/6/2012	1:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/6/2012	2:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/6/2012	3:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/6/2012	4:00:00 PM	1.99	2.5	0.51	1.11	497.8

5/6/2012	5:00:00 PM	2.00	2.5	0.50	1.08	483.2
5/6/2012	6:00:00 PM	2.00	2.5	0.50	1.08	483.2
5/6/2012	7:00:00 PM	2.00	2.5	0.50	1.08	483.2
5/6/2012	8:00:00 PM	2.00	2.5	0.50	1.08	483.2
5/6/2012	9:00:00 PM	2.00	2.5	0.50	1.08	483.2
5/6/2012	10:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/6/2012	11:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/7/2012	12:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/7/2012	1:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/7/2012	2:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/7/2012	3:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/7/2012	4:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/7/2012	5:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/7/2012	6:00:00 AM	1.99	2.5	0.51	1.11	497.8
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5/7/2012	8:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/7/2012	9:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/7/2012	10:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/7/2012	11:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/7/2012	12:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/7/2012	1:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/7/2012	2:00:00 PM	1.98	2.5	0.52	1.14	512.6
5/7/2012	3:00:00 PM	1.98	2.5	0.52	1.14	512.6
5/7/2012	4:00:00 PM	1.98	2.5	0.52	1.14	512.6
5/7/2012	5:00:00 PM	1.98	2.5	0.52	1.14	512.6
5/7/2012	6:00:00 PM	1.98	2.5	0.52	1.14	512.6
5/7/2012	7:00:00 PM	1.98	2.5	0.52	1.14	512.6
5/7/2012	8:00:00 PM	1.98	2.5	0.52	1.14	512.6
5/7/2012	9:00:00 PM	1.97	2.5	0.53	1.18	527.6
5/7/2012	10:00:00 PM	1.97	2.5	0.53	1.18	527.6
5/7/2012	11:00:00 PM	1.97	2.5	0.53	1.18	527.6
5/8/2012	12:00:00 AM	1.97	2.5	0.53	1.18	527.6
5/8/2012	1:00:00 AM	1.97	2.5	0.53	1.18	527.6
5/8/2012	2:00:00 AM	1.97	2.5	0.53	1.18	527.6
5/8/2012	3:00:00 AM	1.97	2.5	0.53	1.18	527.6
5/8/2012	4:00:00 AM	1.97	2.5	0.53	1.18	527.6
5/8/2012	5:00:00 AM	1.97	2.5	0.53	1.18	527.6
5/8/2012	6:00:00 AM	1.97	2.5	0.53	1.18	527.6
5/8/2012	7:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/8/2012	8:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/8/2012	9:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/8/2012	10:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/8/2012	11:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/8/2012	12:00:00 PM	1.98	2.5	0.52	1.14	512.6
5/8/2012	1:00:00 PM	1.98	2.5	0.52	1.14	512.6
5/8/2012	2:00:00 PM	1.98	2.5	0.52	1.14	512.6
5/8/2012	3:00:00 PM	1.98	2.5	0.52	1.14	512.6

5/8/2012	4:00:00 PM	1.98	2.5	0.52	1.14	512.6
5/8/2012	5:00:00 PM	1.97	2.5	0.53	1.18	527.6
5/8/2012	6:00:00 PM	1.98	2.5	0.52	1.14	512.6
5/8/2012	7:00:00 PM	1.98	2.5	0.52	1.14	512.6
5/8/2012	8:00:00 PM	1.98	2.5	0.52	1.14	512.6
5/8/2012	9:00:00 PM	1.98	2.5	0.52	1.14	512.6
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5/8/2012	11:00:00 PM	1.98	2.5	0.52	1.14	512.6
5/9/2012	12:00:00 AM	1.98	2.5	0.52	1.14	512.6
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5/9/2012	5:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/9/2012	6:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/9/2012	7:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/9/2012	8:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/9/2012	9:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/9/2012	10:00:00 AM	1.98	2.5	0.52	1.14	512.6
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5/9/2012	12:00:00 PM	1.98	2.5	0.52	1.14	512.6
5/9/2012	1:00:00 PM	1.98	2.5	0.52	1.14	512.6
5/9/2012	2:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/9/2012	3:00:00 PM	1.99	2.5	0.51	1.11	497.8
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5/9/2012	5:00:00 PM	1.99	2.5	0.51	1.11	497.8
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5/11/2012	7:00:00 PM	1.99	2.5	0.51	1.11	497.8
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5/12/2012	6:00:00 AM	1.98	2.5	0.52	1.14	512.6
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5/12/2012	2:00:00 PM	1.98	2.5	0.52	1.14	512.6
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5/12/2012	5:00:00 PM	1.99	2.5	0.51	1.11	497.8
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5/12/2012	11:00:00 PM	1.99	2.5	0.51	1.11	497.8
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5/13/2012	5:00:00 AM	1.99	2.5	0.51	1.11	497.8
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5/13/2012	7:00:00 PM	1.98	2.5	0.52	1.14	512.6
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5/14/2012	1:00:00 AM	1.99	2.5	0.51	1.11	497.8
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5/14/2012	5:00:00 AM	1.98	2.5	0.52	1.14	512.6
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5/14/2012	1:00:00 PM	1.98	2.5	0.52	1.14	512.6
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5/14/2012	8:00:00 PM	2.00	2.5	0.50	1.08	483.2
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5/15/2012	1:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/15/2012	2:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/15/2012	3:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/15/2012	4:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/15/2012	5:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/15/2012	6:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/15/2012	7:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/15/2012	8:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/15/2012	9:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/15/2012	10:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/15/2012	11:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/15/2012	12:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/15/2012	1:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/15/2012	2:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/15/2012	3:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/15/2012	4:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/15/2012	5:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/15/2012	6:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/15/2012	7:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/15/2012	8:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/15/2012	9:00:00 PM	2.00	2.5	0.50	1.08	483.2
5/15/2012	10:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/15/2012	11:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/16/2012	12:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/16/2012	1:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/16/2012	2:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/16/2012	3:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/16/2012	4:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/16/2012	5:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/16/2012	6:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/16/2012	7:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/16/2012	8:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/16/2012	9:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/16/2012	10:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/16/2012	11:00:00 AM	1.98	2.5	0.52	1.14	512.6

5/16/2012	12:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/16/2012	1:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/16/2012	2:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/16/2012	3:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/16/2012	4:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/16/2012	5:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/16/2012	6:00:00 PM	2.00	2.5	0.50	1.08	483.2
5/16/2012	7:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/16/2012	8:00:00 PM	2.00	2.5	0.50	1.08	483.2
5/16/2012	9:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/16/2012	10:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/16/2012	11:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/17/2012	12:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/17/2012	1:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/17/2012	2:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/17/2012	3:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/17/2012	4:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/17/2012	5:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/17/2012	6:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/17/2012	7:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/17/2012	8:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/17/2012	9:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/17/2012	10:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/17/2012	11:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/17/2012	12:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/17/2012	1:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/17/2012	2:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/17/2012	3:00:00 PM	2.00	2.5	0.50	1.08	483.2
5/17/2012	4:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/17/2012	5:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/17/2012	6:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/17/2012	7:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/17/2012	8:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/17/2012	9:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/17/2012	10:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/17/2012	11:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/18/2012	12:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/18/2012	1:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/18/2012	2:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/18/2012	3:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/18/2012	4:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/18/2012	5:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/18/2012	6:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/18/2012	7:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/18/2012	8:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/18/2012	9:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/18/2012	10:00:00 AM	1.98	2.5	0.52	1.14	512.6

5/18/2012	11:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/18/2012	12:00:00 PM	1.98	2.5	0.52	1.14	512.6
5/18/2012	1:00:00 PM	1.98	2.5	0.52	1.14	512.6
5/18/2012	2:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/18/2012	3:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/18/2012	4:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/18/2012	5:00:00 PM	2.00	2.5	0.50	1.08	483.2
5/18/2012	6:00:00 PM	2.00	2.5	0.50	1.08	483.2
5/18/2012	7:00:00 PM	2.00	2.5	0.50	1.08	483.2
5/18/2012	8:00:00 PM	2.00	2.5	0.50	1.08	483.2
5/18/2012	9:00:00 PM	2.00	2.5	0.50	1.08	483.2
5/18/2012	10:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/18/2012	11:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/19/2012	12:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/19/2012	1:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/19/2012	2:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/19/2012	3:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/19/2012	4:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/19/2012	5:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/19/2012	6:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/19/2012	7:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/19/2012	8:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/19/2012	9:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/19/2012	10:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/19/2012	11:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/19/2012	12:00:00 PM	1.98	2.5	0.52	1.14	512.6
5/19/2012	1:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/19/2012	2:00:00 PM	1.98	2.5	0.52	1.14	512.6
5/19/2012	3:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/19/2012	4:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/19/2012	5:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/19/2012	6:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/19/2012	7:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/19/2012	8:00:00 PM	2.00	2.5	0.50	1.08	483.2
5/19/2012	9:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/19/2012	10:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/19/2012	11:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/20/2012	12:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/20/2012	1:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/20/2012	2:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/20/2012	3:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/20/2012	4:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/20/2012	5:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/20/2012	6:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/20/2012	7:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/20/2012	8:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/20/2012	9:00:00 AM	1.99	2.5	0.51	1.11	497.8

5/20/2012	10:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/20/2012	11:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/20/2012	12:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/20/2012	1:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/20/2012	2:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/20/2012	3:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/20/2012	4:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/20/2012	5:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/20/2012	6:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/20/2012	7:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/20/2012	8:00:00 PM	2.00	2.5	0.50	1.08	483.2
5/20/2012	9:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/20/2012	10:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/20/2012	11:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/21/2012	12:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/21/2012	1:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/21/2012	2:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/21/2012	3:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/21/2012	4:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/21/2012	5:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/21/2012	6:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/21/2012	7:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/21/2012	8:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/21/2012	9:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/21/2012	10:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/21/2012	11:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/21/2012	12:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/21/2012	1:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/21/2012	2:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/21/2012	3:00:00 PM	2.00	2.5	0.50	1.08	483.2
5/21/2012	4:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/21/2012	5:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/21/2012	6:00:00 PM	2.00	2.5	0.50	1.08	483.2
5/21/2012	7:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/21/2012	8:00:00 PM	2.00	2.5	0.50	1.08	483.2
5/21/2012	9:00:00 PM	2.00	2.5	0.50	1.08	483.2
5/21/2012	10:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/21/2012	11:00:00 PM	2.00	2.5	0.50	1.08	483.2
5/22/2012	12:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/22/2012	1:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/22/2012	2:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/22/2012	3:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/22/2012	4:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/22/2012	5:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/22/2012	6:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/22/2012	7:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/22/2012	8:00:00 AM	1.99	2.5	0.51	1.11	497.8

5/22/2012	9:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/22/2012	10:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/22/2012	11:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/22/2012	12:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/22/2012	1:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/22/2012	2:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/22/2012	3:00:00 PM	2.00	2.5	0.50	1.08	483.2
5/22/2012	4:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/22/2012	5:00:00 PM	2.00	2.5	0.50	1.08	483.2
5/22/2012	6:00:00 PM	2.00	2.5	0.50	1.08	483.2
5/22/2012	7:00:00 PM	2.00	2.5	0.50	1.08	483.2
5/22/2012	8:00:00 PM	2.00	2.5	0.50	1.08	483.2
5/22/2012	9:00:00 PM	2.00	2.5	0.50	1.08	483.2
5/22/2012	10:00:00 PM	2.00	2.5	0.50	1.08	483.2
5/22/2012	11:00:00 PM	2.00	2.5	0.50	1.08	483.2
5/23/2012	12:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/23/2012	1:00:00 AM	2.00	2.5	0.50	1.08	483.2
5/23/2012	2:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/23/2012	3:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/23/2012	4:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/23/2012	5:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/23/2012	6:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/23/2012	7:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/23/2012	8:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/23/2012	9:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/23/2012	10:00:00 AM	1.98	2.5	0.52	1.14	512.6
5/23/2012	11:00:00 AM	1.99	2.5	0.51	1.11	497.8
5/23/2012	12:00:00 PM	1.98	2.5	0.52	1.14	512.6
5/23/2012	1:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/23/2012	2:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/23/2012	3:00:00 PM	2.00	2.5	0.50	1.08	483.2
5/23/2012	4:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/23/2012	5:00:00 PM	2.00	2.5	0.50	1.08	483.2
5/23/2012	6:00:00 PM	2.01	2.5	0.49	1.04	468.6
5/23/2012	7:00:00 PM	2.01	2.5	0.49	1.04	468.6
5/23/2012	8:00:00 PM	2.01	2.5	0.49	1.04	468.6
5/23/2012	9:00:00 PM	2.01	2.5	0.49	1.04	468.6
5/23/2012	10:00:00 PM	2.01	2.5	0.49	1.04	468.6
5/23/2012	11:00:00 PM	2.02	2.5	0.48	1.01	454.3
5/24/2012	12:00:00 AM	2.02	2.5	0.48	1.01	454.3
5/24/2012	1:00:00 AM	2.02	2.5	0.48	1.01	454.3
5/24/2012	2:00:00 AM	2.03	2.5	0.47	0.98	440.0
5/24/2012	3:00:00 AM	2.03	2.5	0.47	0.98	440.0
5/24/2012	4:00:00 AM	2.03	2.5	0.47	0.98	440.0
5/24/2012	5:00:00 AM	2.03	2.5	0.47	0.98	440.0
5/24/2012	6:00:00 AM	2.04	2.5	0.46	0.95	426.0
5/24/2012	7:00:00 AM	2.04	2.5	0.46	0.95	426.0

5/24/2012	8:00:00 AM	2.04	2.5	0.46	0.95	426.0
5/24/2012	9:00:00 AM	2.03	2.5	0.47	0.98	440.0
5/24/2012	10:00:00 AM	2.04	2.5	0.46	0.95	426.0
5/24/2012	11:00:00 AM	2.04	2.5	0.46	0.95	426.0
5/24/2012	12:00:00 PM	2.03	2.5	0.47	0.98	440.0
5/24/2012	1:00:00 PM	2.04	2.5	0.46	0.95	426.0
5/24/2012	2:00:00 PM	2.04	2.5	0.46	0.95	426.0
5/24/2012	3:00:00 PM	2.05	2.5	0.45	0.92	412.1
5/24/2012	4:00:00 PM	2.06	2.5	0.44	0.89	398.3
5/24/2012	5:00:00 PM	2.06	2.5	0.44	0.89	398.3
5/24/2012	6:00:00 PM	2.07	2.5	0.43	0.86	384.7
5/24/2012	7:00:00 PM	2.08	2.5	0.42	0.83	371.3
5/24/2012	8:00:00 PM	2.08	2.5	0.42	0.83	371.3
5/24/2012	9:00:00 PM	2.07	2.5	0.43	0.86	384.7
5/24/2012	10:00:00 PM	2.08	2.5	0.42	0.83	371.3
5/24/2012	11:00:00 PM	2.06	2.5	0.44	0.89	398.3
5/25/2012	12:00:00 AM	2.06	2.5	0.44	0.89	398.3
5/25/2012	1:00:00 AM	2.06	2.5	0.44	0.89	398.3
5/25/2012	2:00:00 AM	2.05	2.5	0.45	0.92	412.1
5/25/2012	3:00:00 AM	2.05	2.5	0.45	0.92	412.1
5/25/2012	4:00:00 AM	2.04	2.5	0.46	0.95	426.0
5/25/2012	5:00:00 AM	2.04	2.5	0.46	0.95	426.0
5/25/2012	6:00:00 AM	2.04	2.5	0.46	0.95	426.0
5/25/2012	7:00:00 AM	2.03	2.5	0.47	0.98	440.0
5/25/2012	8:00:00 AM	2.03	2.5	0.47	0.98	440.0
5/25/2012	9:00:00 AM	2.02	2.5	0.48	1.01	454.3
5/25/2012	10:00:00 AM	2.02	2.5	0.48	1.01	454.3
5/25/2012	11:00:00 AM	2.01	2.5	0.49	1.04	468.6
5/25/2012	12:00:00 PM	2.02	2.5	0.48	1.01	454.3
5/25/2012	1:00:00 PM	2.02	2.5	0.48	1.01	454.3
5/25/2012	2:00:00 PM	2.02	2.5	0.48	1.01	454.3
5/25/2012	3:00:00 PM	2.02	2.5	0.48	1.01	454.3
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5/25/2012	11:00:00 PM	2.02	2.5	0.48	1.01	454.3
5/26/2012	12:00:00 AM	2.02	2.5	0.48	1.01	454.3
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5/26/2012	2:00:00 AM	2.01	2.5	0.49	1.04	468.6
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5/26/2012	4:00:00 AM	2.00	2.5	0.50	1.08	483.2
5/26/2012	5:00:00 AM	2.00	2.5	0.50	1.08	483.2
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5/27/2012	11:00:00 PM	2.00	2.5	0.50	1.08	483.2
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5/28/2012	4:00:00 AM	2.00	2.5	0.50	1.08	483.2
5/28/2012	5:00:00 AM	1.99	2.5	0.51	1.11	497.8

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5/29/2012	8:00:00 PM	1.99	2.5	0.51	1.11	497.8
5/29/2012	9:00:00 PM	1.98	2.5	0.52	1.14	512.6
5/29/2012	10:00:00 PM	1.97	2.5	0.53	1.18	527.6
5/29/2012	11:00:00 PM	1.96	2.5	0.54	1.21	542.7
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5/30/2012	1:00:00 AM	1.96	2.5	0.54	1.21	542.7
5/30/2012	2:00:00 AM	1.96	2.5	0.54	1.21	542.7
5/30/2012	3:00:00 AM	1.96	2.5	0.54	1.21	542.7
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5/30/2012	6:00:00 AM	1.97	2.5	0.53	1.18	527.6
5/30/2012	7:00:00 AM	1.97	2.5	0.53	1.18	527.6
5/30/2012	8:00:00 AM	1.97	2.5	0.53	1.18	527.6
5/30/2012	9:00:00 AM	1.98	2.5	0.52	1.14	512.6
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5/30/2012	7:00:00 PM	2.01	2.5	0.49	1.04	468.6
5/30/2012	8:00:00 PM	2.00	2.5	0.50	1.08	483.2
5/30/2012	9:00:00 PM	2.00	2.5	0.50	1.08	483.2
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5/31/2012	11:00:00 PM	2.00	2.5	0.50	1.08	483.2

Appendix K

EPA Guidelines on Determining Streamflow from Surface Velocity



Water: Monitoring & Assessment

You are here: Water » Our Waters » Rivers & Streams » Monitoring & Assessment » 5.1 Stream Flow

5.1 Stream Flow

What is stream flow and why is it important?

Stream flow, or discharge, is the volume of water that moves over a designated point over a fixed period of time. It is often expressed as cubic feet per second (ft^3/sec).

The flow of a stream is directly related to the amount of water moving off the watershed into the stream channel. It is affected by weather, increasing during rainstorms and decreasing during dry periods. It also changes during different seasons of the year, decreasing during the summer months when evaporation rates are high and shoreline vegetation is actively growing and removing water from the ground. August and September are usually the months of lowest flow for most streams and rivers in most of the country.

Water withdrawals for irrigation purposes can seriously deplete water flow, as can industrial water withdrawals. Dams used for electric power generation, particularly facilities designed to produce power during periods of peak need, often block the flow of a stream and later release it in a surge.

Flow is a function of water volume and velocity. It is important because of its impact on water quality and on the living organisms and habitats in the stream. Large, swiftly flowing rivers can receive pollution discharges and be little affected, whereas small streams have less capacity to dilute and degrade wastes.

Stream velocity, which increases as the volume of the water in the stream increases, determines the kinds of organisms that can live in the stream (some need fast-flowing areas; others need quiet pools). It also affects the amount of silt and sediment carried by the stream. Sediment introduced to quiet, slow-flowing streams will settle quickly to the stream bottom. Fast moving streams will keep sediment suspended longer in the water column. Lastly, fast-moving streams generally have higher levels of dissolved oxygen than slow streams because they are better aerated.

This section describes one method for estimating flow in a specific area or reach of a stream. It is adapted from techniques used by several volunteer monitoring programs and uses a float (an object such as an orange, ping-pong ball, pine cone, etc.) to measure stream velocity. Calculating flow involves solving an equation that examines the relationship among several variables including stream cross-sectional area, stream length, and water velocity. One way to measure flow is to solve the following equation:

$$\text{Flow} = \text{ALC} / \text{T}$$

Where:

A=Average cross-sectional area of the stream (stream width multiplied by average water depth).

L=Length of the stream reach measured (usually 20 ft.)

C=A coefficient or correction factor (0.8 for rocky-bottom streams or 0.9 for muddy-bottom streams). This allows you to correct for the fact that water at the surface travels faster than near the stream bottom due to resistance from gravel, cobble, etc. Multiplying the surface velocity by a correction coefficient decreases the value and gives a better measure of the stream's overall velocity.

T=Time, in seconds, for the float to travel the length of L

How to Measure and Calculate Stream Flow

Task 1 Prepare before leaving for the sampling site

Refer to [section 2.3 - Safety Considerations](#) for details on confirming sampling date and time, safety considerations, checking supplies, and checking weather and directions. In addition to the standard sampling equipment and apparel, when measuring and calculating flow, include the following equipment:

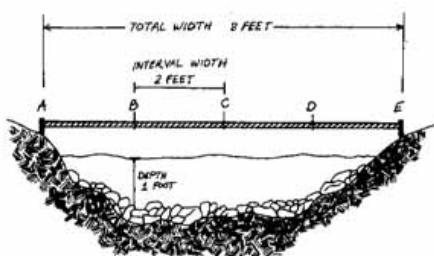
- Ball of heavy-duty string, four stakes, and a hammer to drive the stakes into the ground. The string will be stretched across the width of the stream perpendicular to shore at two locations. The stakes are to anchor the string on each bank to form a transect line.
- Tape measure (at least 20 feet)
- Waterproof yardstick or other implement to measure water depth
- Twist ties (to mark off intervals on the string of the transect line)
- An orange and a fishing net (to scoop the orange out of the stream)
- Stopwatch (or watch with a second hand)
- Calculator (optional)

Task 2 Select a stretch of stream

The stream stretch chosen for the measurement of discharge should be straight (no bends), at least 6 inches deep, and should not contain an area of slow water such as a pool. Unobstructed riffles or runs are ideal. The length that you select will be equal to L in solving the flow equation. Twenty feet is a standard length used by many programs. Measure your length and mark the upper and lower end by running a transect line across the stream perpendicular to the shore using the string and stakes (Fig. 5.4). The string should be taut and near the water surface. The upstream transect is Transect #1 and the downstream one is Transect #2.

Task 3 Calculate the average cross-sectional area

Cross-sectional area (A in the formula) is the product of stream width multiplied by average water depth. To calculate the average cross-sectional area for the study stream reach, volunteers should determine the cross-sectional area for each transect, add the results together, and then divide by 2 to determine the average cross-sectional area for the stream reach.

To measure cross-sectional area:**Figure 5.5**

2. Determine the average depth along the transect by marking off equal intervals along the string with the twist ties. The intervals can be one-fourth, one-half, and three-fourths of the distance across the stream. Measure the water's depth at each interval point (Fig. 5.5). To calculate average depth for each transect, divide the total of the three depth measurements by 4. (You divide by 4 instead of 3 because you need to account for the 0 depths that occur at the shores.) In the example shown in Figure 5.6, the average depth of Transect #1 is 0.575 feet and the average depth of Transect #2 is 0.625 feet.
3. Determine the width of each transect by measuring the distance from shoreline to shoreline. Simply add together all the interval widths for each transect to determine its width. In the Figure 5.6 example, the width of Transect #1 is 8 feet and the width of Transect #2 is 10 feet.
4. Calculate the cross-sectional area of each transect by multiplying width times average depth. The example given in Figure 5.6 shows that the average cross-sectional area of Transect #1 is 4.60 square feet and the average cross-sectional area of Transect #2 is 6.25 square feet.

5. To determine the average cross-sectional area of the entire stream reach (A in the formula), add together the average cross-sectional area of each transect and then divide by 2. The average cross-sectional area for the stream reach in Figure 5.6 is 5.42 square feet.

Figure 5.6**A diagram of a 20-foot transect****Task 4 Measure travel time**

Volunteers should time with a stopwatch how long it takes for an orange (or some other object) to float from the upstream to the downstream transect. An orange is a good object to use because it has enough buoyancy to float just below the water surface. It is at this position that maximum velocity typically occurs.

The volunteer who lets the orange go at the upstream transect should position it so it flows into the fastest current. The clock stops when the orange passes fully under the downstream transect line. Once under the transect line, the orange can be scooped out of the water with the fishing net. This "time of travel" measurement should be conducted at least three times and the results averaged--the more trials you do, the more accurate your results will be. The averaged results are equal to T in the formula. It is a good idea to float the orange at different distances from the bank to get various velocity estimates. You should discard any float trials if the object gets hung up in the stream (by cobbles, roots, debris, etc.)

Task 5 Calculate flow

Recall that flow can be calculated using the equation:

$$\text{Flow} = \text{ALC} / \text{T}$$

Continuing the example in Fig. 5.6, say the average time of travel for the orange between Transect #1 and #2 is 15 seconds and the stream had a rocky bottom. The calculation of flow would be:

Where:

A	=	5.42 ft ²
L	=	20 ft
C	=	0.8 (coefficient for a rocky-bottom stream)
T	=	15 seconds

$$\begin{aligned} \text{Flow} &= 15 \text{ seconds} (5.42 \text{ ft}^2) (20 \text{ ft}) (0.8) / 15 \text{ sec.} \\ &= 86.72 \text{ ft}^3 / 15 \text{ sec.} \\ &= 5.78 \text{ ft}^3/\text{sec.} \end{aligned}$$

Task 6 Record flow on the data form

On the following page is a form volunteers can use to calculate flow of a stream.

References

Adopt-A-Stream Foundation. *Field Guide: Watershed Inventory and Stream Monitoring Methods*, by Tom Murdoch and Martha Cheo. 1996. Everett, WA.

Mitchell, M.K., and W. Stapp. *Field Manual for Water Quality Monitoring*. 5th Edition. Thompson Shore Printers.

Missouri Stream Teams. *Volunteer Water Quality Monitoring*. Missouri Department of Natural Resources, P.O. Box 176, Jefferson City, MO 65102.

[Data Form for Calculating Flow \(PDF, 82.8 KB\)](#)

You will need Adobe Acrobat Reader to view the Adobe PDF files on this page. See [EPA's PDF page](#) for more information about getting and using the free Acrobat Reader.

Last updated on Tuesday, March 06, 2012

